June 27, 2014

Ms. Shelly Lam
On-Scene Coordinator
Emergency Response Branch
U.S. Environmental Protection Agency, Region 5
2525 North Shadeland Avenue, Suite 100
Indianapolis, Indiana 46219

Subject: **Site Assessment Report**
Dearborn Street VI Site
Indianapolis, Indiana
Technical Direction Document No. TO-01-13-12-1033
OTIE Contract No. EP-S5-10-10

Dear Ms. Lam:

OTIE is submitting the enclosed Draft Site Assessment Report for the Dearborn Street VI Site located in Indianapolis, Indiana for your review and comments. If you have any questions, please contact me at (312) 220-7000 Extension 27 or Raghu Nagam at (312) 220-7005.

Sincerely,

Raghu Nagam

for
Christopher Redfearn
Project Manager

Enclosures

cc: Raghu Nagam, START Program Manager

SITE ASSESSMENT REPORT
DEARBORN STREET VI SITE
INDIANAPOLIS, MARION COUNTY, INDIANA

Prepared for:

U.S. Environmental Protection Agency, Region 5
Emergency Response Branch
2525 North Shadeland Avenue, Suite 100
Indianapolis, Indiana 46219

TDD No.:	TO-01-13-12-1033
Date Prepared:	June 27, 2014
Contract No.:	EP-S5-10-10
Prepared by:	OTIE
START Project Manager:	Christopher Redfearn
Telephone No.:	(312) 220-7000 Ext. 27
U.S. EPA On-Scene Coordinator:	Shelly Lam
Telephone No.:	(317) 308-3073

29 South LaSalle Street, Suite 930
Chicago, IL 60603

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1 INTRODUCTION

Oneida Total Integrated Enterprises (OTIE) performed a Site Assessment (SA) at the Dearborn Street Vapor Intrusion (VI) Site (Site) located in Indianapolis, Indiana. The OTIE Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (U.S. EPA), under Contract Number (No.) EP-S5-10-10 and Technical Direction Document (TDD) No. TO-01-13-12-1033, to perform this site assessment. START was tasked to prepare a site-specific Health and Safety Plan (HASP) and a Sampling and Analysis Plan (SAP); procure analytical laboratory services; procure local and private utility marking services; order field supplies; collect soil gas samples and deliver them to the lab; document on-site conditions with written logbook notes and still photographs; evaluate analytical data; and prepare this SA Report. OTIE START Project Manager Christopher Redfearn conducted the field investigation and sampling from February 18 to February 20, 2014 with the oversight of On-Scene Coordinator (OSC) Shelly Lam. The Indiana Department of Environmental Management (IDEM) also supported the field investigation and sampling activities by providing field personnel and a direct push technology drill rig.

This Site Assessment Report summarizes the site background; discusses assessment activities; provides a summary of the analytical data; and discusses potential site-related threats. The appendices for this report include Soil Boring Logs (Appendix A), the Validated Analytical Data Package (Appendix B), and a Photographic Log (Appendix C).

2 SITE BACKGROUND

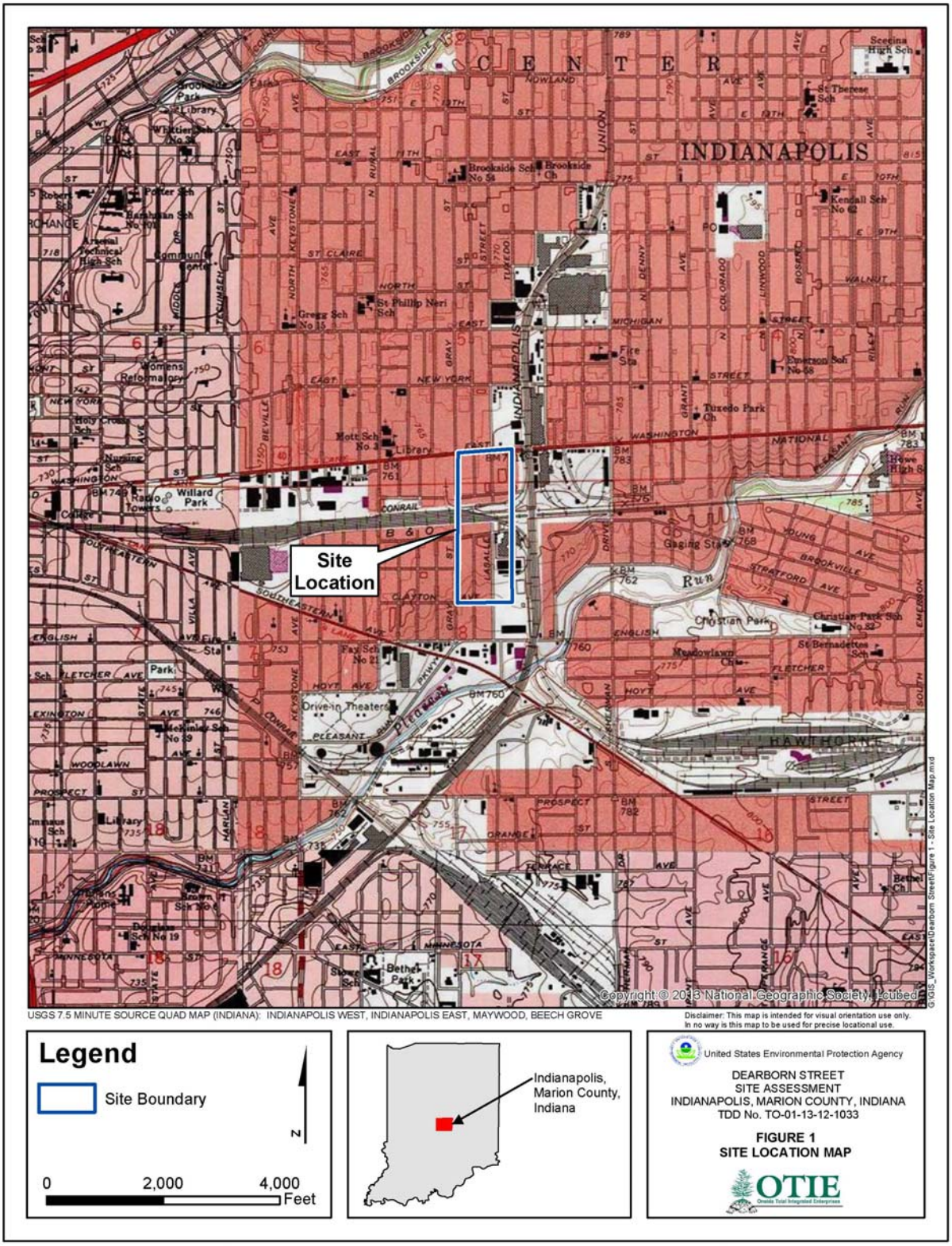
This section provides the Site description and a history of the Site area.

2.1 Site Description

The general area comprising of several right-of- way residential yards bounded by East Washington Street to the north, South Tuxedo Street to the east, South Gray Street to the west, and Clayton Street to the south constitute Dearborn Street VI Site (Figure 1 – Site Location Map). The Site encompassed the area designated as the Lasalle Street Site by IDEM. There are several industrial facilities and former Superfund sites located within the Site area (Figure 2, Site Features Map).

2.2 Site History

There is no prior documentation of environmental conditions at the Site. Several current and historic industrial facilities and former U.S. EPA Superfund sites are located in the general vicinity of the Site, including: the former P.R. Mallory and Company Inc. site, Contacts Metals Welding (CMW) Inc., Max Katz Bag Company Inc., the former Titan Industries, the Crown Laundry Superfund site, and the George F. Cram Company. Each of these facilities is located within 0.2 miles from the Dearborn Street VI Site. The Marion County Public Health Department (MCPHD) and Indiana Department of Environmental Management (IDEM) requested U.S. EPA assistance in evaluating potential subsurface vapor conditions in the Site area due to local resident concerns related to health issues in the neighborhood.


Site Location
Legend
Site Boundary
N
0
2,000
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Feet
Indianapolis, Marion County, Indiana
United States Environmental Protection Agency
DEARBORN STREET
SITE ASSESSMENT
INDIANAPOLIS, MARION COUNTY, INDIANA
TDD No. TO-01-13-12-1033
FIGURE 1
SITE LOCATION MAP
OTIE
USGS 7.5 MINUTE SOURCE QUAD MAP (INDIANA): INDIANAPOLIS WEST, INDIANAPOLIS EAST, MAYWOOD, BEECH GROVE
Disclaimer: This map is intended for visual orientation use only.
In no way is this map to be used for precise locational use.
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G:\GIS_Workspace\Dearborn Street\Figure 1 - Site Location Map.mxd

3 SITE ASSESSMENT ACTIVITIES

U.S. EPA, IDEM, and START performed site assessment activities from February 18 to February 20, 2014. During this site assessment, soil borings were advanced by IDEM and START collected subsurface soil gas samples from the soil borings. These assessment activities are discussed below.

A site-specific SAP was developed by START and approved by the OSC prior to conducting field activities. The SAP described the data quality objectives (DQO), sampling strategy, proposed sampling locations, sampling methodology, and analytical procedures used during the SA.

This section summarizes site reconnaissance (subsection 3.1), soil borings (subsection 3.2), and soil gas sampling (subsection 3.3). Table 1 presents a summary of collected samples and their locations. Photographic documentation is provided in Appendix A.

3.1 Site Reconnaissance

Prior to the site reconnaissance, START contacted Indiana 811 to have the underground utilities marked in the areas surrounding each sample location. START met with public and private utility locators onsite on February 17, 2014. Public utility locators first marked all public utilities surrounding each sample location with color-coded markings and flags. In addition, START also contacted private utility locator, Blood Hound, to verify the markings made by the public utility locators and mark out any anomalies. The private utility locator then verified the markings for accuracy and marked any anomalies surrounding each sample location using Ground-Penetrating Radar (GPR).

On February 18, 2014, OSC Shelly Lam, START member Christopher Redfearn, and IDEM representative Steve McIntire mobilized to the Site and conducted the Site reconnaissance. The OSC, START, and IDEM scouted areas that were marked by the utility locators for potential sampling locations. Right-of-way locations were selected for soil boring locations. The Site reconnaissance activities were conducted in Level D protective equipment (PPE) in accordance with the approved site-specific HASP (Figure 3 – Sample Locations Map).

3.2 Soil Borings

On February 18, 2014, IDEM mobilized to the Site to advance soil borings. A total of 15 soil borings were advanced using a Geoprobe® DPT drill rig operated by IDEM. Soil borings were 2-inches in diameter and were advanced at 5-foot depth intervals. All soil borings were advanced to a maximum

depth of 20 feet below ground surface (bgs) or until the occurrence of groundwater. All soil borings were logged in 5-foot intervals (Appendix A). Each soil boring location was then prepared for installation of soil gas vapor implant. A soil gas vapor implant was attached to Teflon tubing and inserted into the bore hole such that it was approximately two feet above the water table. The bore hole was filled with glass beads and with approximately two feet of clean sand fill around the tubing. The bore hole was then filled with alternating layers of bentonite granules and bentonite chips up to the ground surface. The uppermost six inches of bentonite granules were hydrated to create a tight seal on the boring. The Teflon tubing was capped and left undisturbed for a time period of 24 hours.

Each boring interval was screened for volatile organic compounds (VOC) using a MultiRAE® Plus PID Gas Detector. None of the soil boring intervals exhibited VOC readings above background readings. The Geoprobe equipment was decontaminated between boring locations and START containerized soil cuttings in 55-gallon drums that were staged at the former Crown Laundry Site pending analytical results. The drums were labeled with the date, drum contents, project name and number, and the initials of the Field Project Leader.

Soil borings labeled as DSVI-43SGS, DSVI-17SGS, and DSVI-252SGS were advanced at residential properties in the right-of-way located along South Gray Street. Soil borings labeled as DSVI-67SDS, DSVI-233SDS, DSVI-305SDS, and DSVI-359SDS were advanced at residential properties in the right-of-way located along South Dearborn Street. Soil borings labeled as DSVI-69SLS, DSVI-441SLS, DSVI-301SLS, and DSVI-248SLS were advanced at residential and commercial properties in the right-of-way located along South Lasalle Street. Soil borings labeled as DSVI-3228NA and DSVI-3106NA were advanced at residential properties in the right-of-way located along Newton Avenue. The soil boring labeled as DSVI-71STS was advanced at a residential property in the right-of-way located along Tuxedo Street.

3.3 Soil Gas Sampling

Soil gas sampling was conducted to evaluate any occurrence of VOCs in soil gas and determine the need for removal/abatement actions. Soil gas samples were collected from 14 of the 15 soil gas sampling locations and submitted to STAT Analysis Laboratory in Chicago, Illinois for VOC analysis. A soil gas sample was not collected from 43 South Lasalle Street because water infiltrated the boring.

The soil gas sampling locations remained undisturbed for 24 hours after their installation. START collected 14 soil gas grab samples and one ambient air grab sample on February 20, 2014 using 1-liter Summa canisters. A leak test was conducted at each location after sampling using a SKC 222-3 Sample

Pump running at approximately 200 milliliters per minute (mL/min), with lab grade helium, and an Ion Science Gascheck G3 Helium leak detector. The tubing inside the boring was attached to the incoming port of the SKC 222-3 sample pump while tubing from the outgoing port was attached to the helium leak detector. A plastic tub was then placed over the boring and the tubing. Helium was placed outside the plastic tub with tubing attached and placed underneath the plastic tub to allow helium to fill the tub to create a shroud. The helium readings on the leak detector suggested that there were no leaks coming from the tubing inside each boring.

START prepared the Summa canister samples with labels and completed the chain of custody. All Summa Canister samples were delivered to STAT Analysis Laboratory in Chicago, Illinois for VOC analysis using EPA Method TO-15.


N Oxford
N Oakland Ave
N Dearborn St
N Lasalle St
E Ohio St
Woodland Dr
N Ewing St
40
S Oxford St
S Parker Ave
S Gray St
S Dearborn St
S Lasalle St
S Tuxedo St
S Ewing St
Moore Ave
S Rural St
Newton Ave
Meredith Ave
S Oakland Ave
Clayton Ave
E English Ave
Address
67 S. Dearborn
43 S. Gray
17 S. Gray St.
69 S. Lasalle St.
71 S. Tuxedo St.
441 S. Lasalle St.
301 S. Lasalle
248 S. Lasalle
233 S. Dearborn
305 S. Dearborn
359 S. Dearborn
252 S. Gray
3106 Newton
3228 Newton
© 2013 Nokia © AND © 2014 Microsoft Corporation
BASEMAP: BING MAPS ROAD
Disclaimer: This map is intended for visual orientation use only. In no way is this map to be used for precise locational use.
Legend
Soil Boring
N
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Feet
Indianapolis, Marion County, Indiana
United States Environmental Protection Agency
DEARBORN STREET
SITE ASSESSMENT
INDIANAPOLIS, MARION COUNTY, INDIANA
TDD No. TO-01-13-12-1033
FIGURE 2
SOIL BORING/SOIL GAS
SAMPLE LOCATIONS MAP
OTIE
G:\GIS_Workspace\Dearborn Street\Figure 2 - Soil Boring-Sod Gas Sample Locations Map.mxd

Table 1
Soil Gas Sample Summary
Dearborn Street VI Site
Indianapolis, Indiana

Sample ID	Sample Location	Sample Description	Laboratory Analysis
DSV1-71STS	South Tuxedo Street	Soil Gas	Total VOCs
DSV1-69SLS	South Lasalle Street	Soil Gas	Total VOCs
DSV1-67SDS	South Dearborn Street	Soil Gas	Total VOCs
DSV1-43SGS	South Gray Street	Soil Gas	Total VOCs
DSV1-17SGS	South Gray Street	Soil Gas	Total VOCs
DSV1-441SLS	South Lasalle Street	Soil Gas	Total VOCs
DSV1-301SLS	South Lasalle Street	Soil Gas	Total VOCs
DSV1-248SLS	South Lasalle Street	Soil Gas	Total VOCs
DSV1-3228NA	Newton Avenue	Soil Gas	Total VOCs
DSV1-233SDS	South Dearborn Street	Soil Gas	Total VOCs
DSV1-305SDS	South Dearborn Street	Soil Gas	Total VOCs
DSV1-359SDS	South Dearborn Street	Soil Gas	Total VOCs
DSV1-252SGS	South Gray Street	Soil Gas	Total VOCs
DSV1-3106NA	Newton Avenue	Soil Gas	Total VOCs
DSV1-AA	Newton Avenue	Ambient Air	Total VOCs

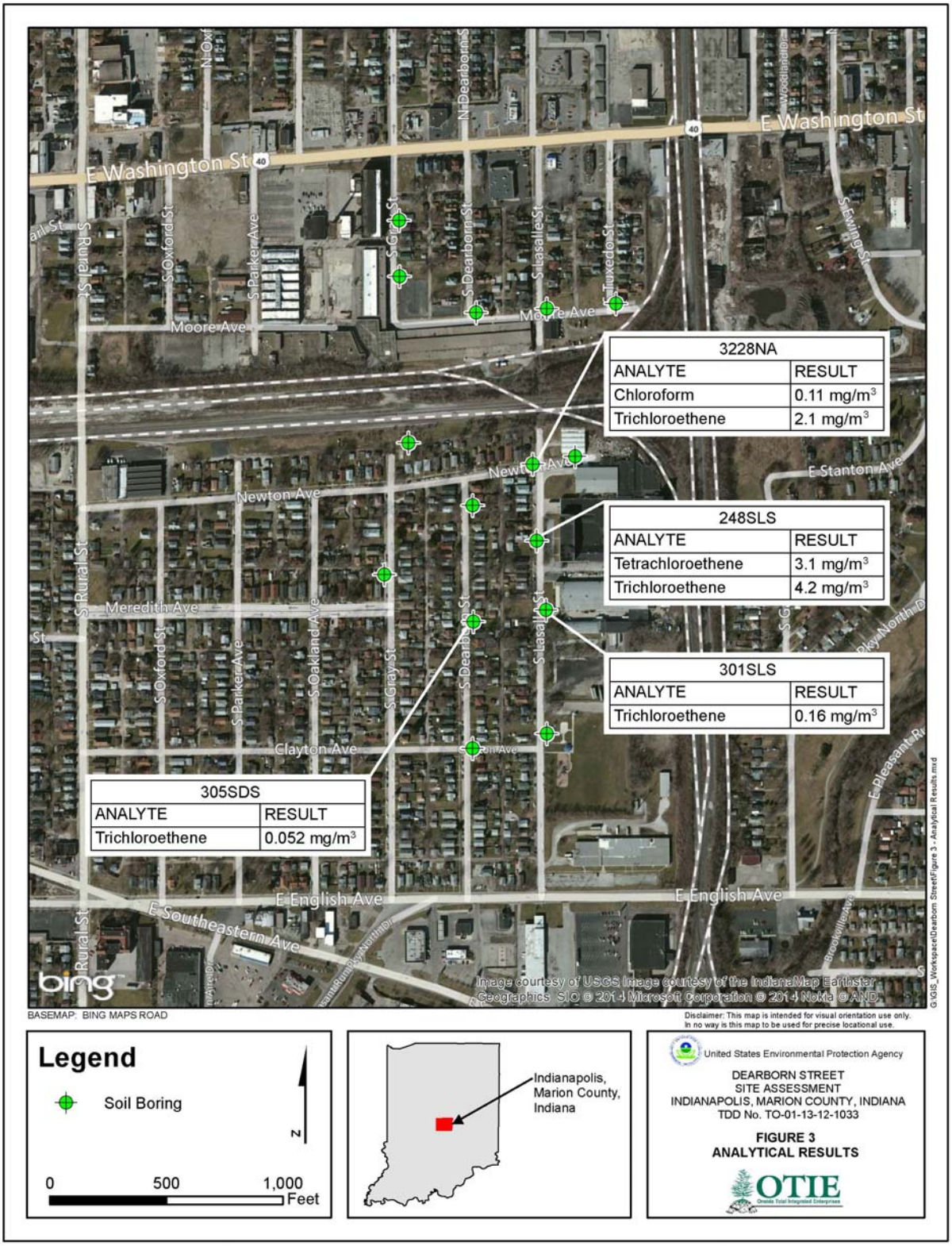
Notes:

DSVI Dearborn Street VI Site
VOCs Volatile organic compounds

4 SAMPLE ANALYTICAL RESULTS

START reviewed the SA analytical data and supporting quality assurance/quality control (QA/QC) data provided by STAT laboratories. The validated analytical data package is included as Appendix B. Based on START's data validation, the data is acceptable for use as qualified. Results for soil gas samples collected on February 20, 2014 are shown in Table 2. Sample results were compared to the EPA Vapor Intrusion Screening Levels (VISLs) for exterior soil gas criteria using the VISL Calculator Version 3.2, November 2013 Regional Screening Levels (RSLs). The residential screening level values are based on a target risk for carcinogens (TCR) of 10^{-4} and a target hazard quotient (THQ) for non-carcinogens of 3, except for trichloroethene, in which the THQ is 1.

Analytical results of the soil gas samples indicate the presence of chloroform, tetrachloroethene or perchloroethylene (PERC), and trichloroethene (TCE) above the EPA VISLs. Three of the five samples collected along the S. Lasalle Street indicated TCE concentrations above VISL value; in addition to TCE contamination, one sample also indicated chloroform concentration above VISL value and one sample also indicated PERC concentrations above the VISL value. One of the four samples collected along the S. Dearborn Street indicted TCE concentration above the VISL value (Figure 3)


E Washington St
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Moore Ave
Newton Ave
Meredith Ave
Clayton Ave
E English Ave
E Southeastern Ave
S Rural St
S Oxford St
S Parker Ave
S Oakland Ave
S Gray St
S Dearborn St
S Lasalle St
S Tuxedo St
N Dearborn St
S Ewing St
E Stanton Ave
E Pleasant Run Pkwy North Dr
Brookville Ave
3228NA
ANALYTE | RESULT
Chloroform | 0.11 mg/m3
Trichloroethene | 2.1 mg/m3
248SLS
ANALYTE | RESULT
Tetrachloroethene | 3.1 mg/m3
Trichloroethene | 4.2 mg/m3
301SLS
ANALYTE | RESULT
Trichloroethene | 0.16 mg/m3
305SDS
ANALYTE | RESULT
Trichloroethene | 0.052 mg/m3
bing
Image courtesy of USGS Image courtesy of the IndianaMap Earthstar Geographics SIO © 2014 Microsoft Corporation © 2014 Nokia © AND
G:\GIS_Workspace\Dearborn Street\Figure 3 - Analytical Results.mxd
BASEMAP: BING MAPS ROAD
Disclaimer: This map is intended for visual orientation use only. In no way is this map to be used for precise locational use.
Legend
Soil Boring
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Indianapolis, Marion County, Indiana
United States Environmental Protection Agency
DEARBORN STREET
SITE ASSESSMENT
INDIANAPOLIS, MARION COUNTY, INDIANA
TDD No. TO-01-13-12-1033
FIGURE 3
ANALYTICAL RESULTS
OTIE

Table 2
Soil Gas Analytical Results
Dearborn Street VI Site Assessment
Indianapolis, Indiana

Analyte	Sample ID:	DSV1-71STS	DSV1-69SLS	DSV1-67SDS	DSV1-43SGS	DSV1-17SGS
	VISL Target Exterior Soil Gas Conc. (mg/m^3)	Results (mg/m^3)				
1,1,1-Trichloroethane	160	ND	ND	ND	0.023	0.017
1,1,2,2-Tetrachloroethane	0.042	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.0063	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.5	ND	ND	ND	ND	ND
1,1-Dichloroethene	6.3	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.063	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.063	ND	0.0076	0.04	0.019	0.0024
1,2-Dibromoethane	0.041	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	6.3	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.094	ND	ND	0.0013	ND	ND
1,2-Dichloropropane	0.13	ND	ND	0.021	0.011	ND
1,3,5-Trimethylbenzene	NL	ND	0.0031	0.015	0.0081	ND
1,3-Butadiene	0.063	ND	ND	0.0013	0.026	0.0033
1,3-Dichlorobenzene	NL	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.22	ND	ND	0.00087	ND	ND
1,4-Dioxane	NL	ND	ND	ND	ND	ND
2-Butanone	160	ND	0.0041	0.012	0.0096	0.012
2-Hexanone	0.94	ND	ND	ND	ND	ND
4-Ethyltoluene	NL	ND	0.0019	0.012	0.0072	ND
4-Methyl-2-pentanone	94	ND	ND	ND	ND	ND
Acetone	970	0.014	0.07	0.1	0.028	0.094
Benzene	0.31	0.0018	0.014	0.0059	0.011	0.0024
Benzyl chloride	0.031	ND	ND	ND	ND	ND
Bromodichloromethane	0.066	ND	ND	ND	ND	ND

Table 2 Soil Gas Analytical Results Dearborn Street VI Site Assessment Indianapolis, Indiana						
Analyte	**Sample ID:**	**DSV1-71STS**	**DSV1-69SLS**	**DSV1-67SDS**	**DSV1-43SGS**	**DSV1-17SGS**
	VISL Target Exterior Soil Gas Conc. (mg/m^3)	**Results (mg/m^3)**				
Bromoform	NL	ND	ND	ND	ND	ND
Bromomethane	0.16	ND	ND	ND	ND	ND
Carbon disulfide	22	0.0065	0.004	0.005	0.017	0.015
Carbon tetrachloride	0.41	ND	ND	ND	0.0041	ND
Chlorobenzene	1.6	ND	ND	ND	ND	ND
Chloroethane	NL	ND	ND	ND	ND	ND
Chloroform	0.11	ND	ND	0.0045	0.00055	0.0012
Chloromethane	2.8	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NL	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.61	ND	ND	ND	ND	ND
Cyclohexane	190	0.0025	0.026	0.0077	0.1	0.0066
Dibromochloromethane	0.09	ND	ND	ND	ND	ND
Dichlorodifluoromethane	3.1	0.0022	0.0017	ND	ND	ND
Ethyl acetate	NL	ND	ND	ND	ND	ND
Ethylbenzene	0.97	ND	0.0062	0.026	0.017	0.0013
Freon-113	NL	ND	ND	ND	ND	ND
Freon-114	NL	ND	ND	ND	ND	ND
Heptane	NL	0.005	0.049	0.16	0.27	0.033
Hexachlorobutadiene	NL	ND	ND	ND	ND	ND
Hexane	22	0.0059	0.065	0.029	0.49	0.047
Isopropyl Alcohol	NL	0.0037	0.0043	0.0059	0.032	0.1
m,p-Xylene	3.1	ND	0.017	0.083	0.051	0.0032
Methyl tert-butyl ether	9.4	ND	ND	ND	ND	ND
Methylene chloride	19	ND	ND	ND	ND	ND

Table 2 Soil Gas Analytical Results Dearborn Street VI Site Assessment Indianapolis, Indiana						
Analyte	**Sample ID:**	**DSV1-71STS**	**DSV1-69SLS**	**DSV1-67SDS**	**DSV1-43SGS**	**DSV1-17SGS**
	VISL Target Exterior Soil Gas Conc. (mg/m^3)	**Results (mg/m^3)**				
o-Xylene	3.1	ND	0.0077	0.025	0.013	ND
Propene	94	ND	0.0071	0.019	0.72	0.025
Styrene	31	ND	ND	0.01	0.0034	ND
Tetrachloroethene	1.3	ND	ND	0.016	0.013	0.0068
Tetrahydrofuran	63	ND	ND	ND	ND	ND
Toluene	160	0.0034	0.04	0.62	0.26	0.02
trans-1,2-Dichloroethene	1.9	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.61	ND	ND	ND	ND	ND
Trichloroethene	0.021	ND	0.0021	0.0054	0.0035	ND
Trichlorofluoromethane	22	ND	ND	ND	ND	ND
Vinyl acetate	6.3	ND	ND	ND	ND	ND
Vinyl chloride	0.16	ND	ND	ND	ND	ND
Xylenes, Total	3.1	ND	0.025	0.11	0.064	0.0043
Analyte	**Sample ID:**	**DSV1-441SLS**	**DSV1-301SLS**	**DSV1-248SLS**	**DSV1-3228NA**	**DSV1-233SDS**
	VISL Target Exterior Soil Gas Conc.[1] (mg/m^3)	**Results (mg/m^3)**				
1,1,1-Trichloroethane	160	ND	0.14	3.2	1.2	0.01
1,1,2,2-Tetrachloroethane	0.042	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.0063	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.5	ND	ND	0.017	0.0011	ND
1,1-Dichloroethene	6.3	ND	ND	0.0053	0.002	ND
1,2,4-Trichlorobenzene	0.063	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.063	ND	0.02	0.04	0.0032	0.0072

Table 2 Soil Gas Analytical Results Dearborn Street VI Site Assessment Indianapolis, Indiana						
Analyte	**Sample ID:**	**DSV1-441SLS**	**DSV1-301SLS**	**DSV1-248SLS**	**DSV1-3228NA**	**DSV1-233SDS**
	VISL Target Exterior Soil Gas Conc.[1] (mg/m^3)	**Results (mg/m^3)**				
1,2-Dibromoethane	0.041	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	6.3	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.094	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.13	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	NL	ND	0.0042	0.011	0.0005	0.0022
1,3-Butadiene	0.063	ND	0.0026	ND	ND	0.017
1,3-Dichlorobenzene	NL	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.22	ND	0.00045	ND	ND	0.00043
1,4-Dioxane	NL	ND	ND	ND	ND	ND
2-Butanone	160	0.013	0.0096	0.0055	ND	0.0038
2-Hexanone	0.94	ND	ND	ND	ND	ND
4-Ethyltoluene	NL	ND	0.007	0.013	ND	0.0025
4-Methyl-2-pentanone	94	ND	0.017	0.052	0.0037	ND
Acetone	970	0.15	0.14	0.028	0.065	ND
Benzene	0.31	ND	0.019	0.01	ND	0.0052
Benzyl chloride	0.031	ND	ND	ND	ND	ND
Bromodichloromethane	0.066	ND	ND	ND	0.0062	ND
Bromoform	NL	ND	ND	ND	ND	ND
Bromomethane	0.16	ND	ND	ND	ND	ND
Carbon disulfide	22	0.0061	0.0057	0.0039	0.024	0.0056
Carbon tetrachloride	0.41	ND	ND	ND	0.0034	ND
Chlorobenzene	1.6	ND	ND	ND	ND	ND
Chloroethane	NL	ND	ND	ND	ND	ND
Chloroform	0.11	ND	0.00044	0.0047	**0.11**	0.00035

Table 2
Soil Gas Analytical Results
Dearborn Street VI Site Assessment
Indianapolis, Indiana

Analyte	Sample ID:	DSV1-441SLS	DSV1-301SLS	DSV1-248SLS	DSV1-3228NA	DSV1-233SDS
	VISL Target Exterior Soil Gas Conc.[1] (mg/m^3)	Results (mg/m^3)				
Chloromethane	2.8	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NL	ND	ND	0.054	0.0021	ND
cis-1,3-Dichloropropene	0.61	ND	ND	ND	ND	ND
Cyclohexane	190	ND	0.063	0.0027	0.013	0.058
Dibromochloromethane	0.09	ND	ND	ND	ND	ND
Dichlorodifluoromethane	3.1	ND	ND	ND	0.0016	ND
Ethyl acetate	NL	ND	ND	ND	ND	ND
Ethylbenzene	0.97	ND	0.016	0.023	0.0046	0.0055
Freon-113	NL	ND	ND	ND	ND	ND
Freon-114	NL	ND	ND	ND	ND	ND
Heptane	NL	ND	0.14	0.0061	0.034	0.1
Hexachlorobutadiene	NL	ND	ND	ND	ND	ND
Hexane	22	0.0083 U	0.17	0.0058 U	0.053	0.22
Isopropyl Alcohol	NL	0.17	0.14	0.0083	0.012	0.013
m,p-Xylene	3.1	ND	0.039	0.063	0.0054	0.015
Methyl tert-butyl ether	9.4	ND	ND	ND	ND	ND
Methylene chloride	19	ND	ND	ND	0.0018 U	0.011
o-Xylene	3.1	ND	0.014	0.024	ND	0.0055
Propene	94	ND	0.01	ND	ND	0.25
Styrene	31	ND	0.0023	0.0045	ND	ND
Tetrachloroethene	1.3	ND	0.27	**3.1**	0.34	0.0022
Tetrahydrofuran	63	ND	ND	ND	ND	ND
Toluene	160	0.014	0.064	0.07	0.018	0.037
trans-1,2-Dichloroethene	1.9	ND	ND	0.01	ND	ND

Table 2
Soil Gas Analytical Results
Dearborn Street VI Site Assessment
Indianapolis, Indiana

Analyte	Sample ID:	DSV1-441SLS	DSV1-301SLS	DSV1-248SLS	DSV1-3228NA	DSV1-233SDS
	VISL Target Exterior Soil Gas Conc.[1] (mg/m^3)	Results (mg/m^3)				
trans-1,3-Dichloropropene	0.61	ND	ND	ND	ND	ND
Trichloroethene	0.021	ND	**0.16**	**4.2**	**2.1**	0.0036
Trichlorofluoromethane	22	ND	ND	ND	ND	ND
Vinyl acetate	6.3	ND	ND	ND	ND	ND
Vinyl chloride	0.16	ND	ND	ND	ND	ND
Xylenes, Total	3.1	ND	0.053	0.087	0.0083	0.021
Analyte	**Sample ID:**	**DSV1-305SDS**	**DSV1-359SDS**	**DSV1-252SGS**	**DSV1-3106NA**	**DSV1-AA**
	VISL Target Exterior Soil Gas Conc.[1] (mg/m^3)	**Results (mg/m^3)**				
1,1,1-Trichloroethane	160	0.06	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.042	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.0063	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.5	ND	ND	ND	ND	ND
1,1-Dichloroethene	6.3	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.063	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.063	0.0061	0.0027	0.0056	0.018	0.0038
1,2-Dibromoethane	0.041	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	6.3	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.094	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.13	ND	0.0026	0.00041	ND	0.0033
1,3,5-Trimethylbenzene	NL	0.002	ND	0.0018	0.0036	ND
1,3-Butadiene	0.063	0.017	0.0035	0.0049	0.002	0.0064
1,3-Dichlorobenzene	NL	ND	ND	ND	ND	ND

Table 2
Soil Gas Analytical Results
Dearborn Street VI Site Assessment
Indianapolis, Indiana

Analyte	Sample ID:	DSV1-305SDS	DSV1-359SDS	DSV1-252SGS	DSV1-3106NA	DSV1-AA
	VISL Target Exterior Soil Gas Conc.[1] (mg/m^3)	Results (mg/m^3)				
1,4-Dichlorobenzene	0.22	ND	ND	ND	ND	ND
1,4-Dioxane	NL	ND	ND	ND	ND	ND
2-Butanone	160	0.0053	0.0041	0.0098	0.0069	ND
2-Hexanone	0.94	ND	ND	ND	ND	ND
4-Ethyltoluene	NL	0.0018	ND	0.0017	0.0049	0.0014
4-Methyl-2-pentanone	94	ND	ND	ND	ND	0.0066
Acetone	970	0.031	ND	0.11	0.095	ND
Benzene	0.31	0.0053	0.0032	0.0029	0.062	0.0036
Benzyl chloride	0.031	ND	ND	ND	ND	ND
Bromodichloromethane	0.066	ND	ND	ND	ND	ND
Bromoform	NL	ND	ND	ND	ND	ND
Bromomethane	0.16	ND	ND	ND	ND	ND
Carbon disulfide	22	0.0094	0.0052	0.074	0.013	0.0064
Carbon tetrachloride	0.41	ND	ND	ND	ND	ND
Chlorobenzene	1.6	ND	ND	ND	ND	ND
Chloroethane	NL	ND	0.00089	ND	ND	0.00085
Chloroform	0.11	0.00072	ND	0.0016	ND	ND
Chloromethane	2.8	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NL	0.0021	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.61	ND	ND	ND	ND	ND
Cyclohexane	190	0.039	0.026	0.0039	0.15	0.029
Dibromochloromethane	0.09	ND	ND	ND	ND	ND
Dichlorodifluoromethane	3.1	0.0016	ND	0.0015	ND	0.0016
Ethyl acetate	NL	ND	ND	ND	ND	ND

Table 2 Soil Gas Analytical Results Dearborn Street VI Site Assessment Indianapolis, Indiana						
Analyte	**Sample ID:**	**DSV1-305SDS**	**DSV1-359SDS**	**DSV1-252SGS**	**DSV1-3106NA**	**DSV1-AA**
	VISL Target Exterior Soil Gas Conc.[1] (mg/m^3)	**Results (mg/m^3)**				
Ethylbenzene	0.97	0.0049	0.0032	0.0057	0.042	0.0036
Freon-113	NL	ND	ND	ND	ND	ND
Freon-114	NL	ND	ND	ND	ND	ND
Heptane	NL	0.015	0.07	0.0076	0.27	0.07
Hexachlorobutadiene	NL	ND	ND	ND	ND	ND
Hexane	22	0.082	0.043	0.0094	0.51	0.039
Isopropyl Alcohol	NL	0.034	0.034	0.21	0.071	0.011
m,p-Xylene	3.1	0.012	0.0082	0.015	0.061	0.01
Methyl tert-butyl ether	9.4	ND	ND	ND	ND	ND
Methylene chloride	19	ND	ND	ND	ND	ND
o-Xylene	3.1	0.0042	0.0023	0.005	0.023	0.0031
Propene	94	0.35	0.041	0.042	0.013	0.097
Styrene	31	ND	ND	0.0015	ND	ND
Tetrachloroethene	1.3	0.022	0.0023	0.0037	ND	0.003
Tetrahydrofuran	63	ND	ND	ND	ND	ND
Toluene	160	0.05	0.097	0.076	0.13	0.095
trans-1,2-Dichloroethene	1.9	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.61	ND	ND	ND	ND	ND
Trichloroethene	0.021	**0.052**	ND	0.0024	0.0072	ND
Trichlorofluoromethane	22	ND	ND	ND	ND	ND
Vinyl acetate	6.3	ND	ND	ND	ND	ND
Vinyl chloride	0.16	ND	ND	ND	ND	ND
Xylenes, Total	3.1	0.017	0.011	0.02	0.083	0.013

Notes:

Samples were collected on February 20, 2014 under START contract EP-S5-10-10

Analyses were conducted by STAT Analysis under TDD No: TO-01-13-12-1033

1-	EPA Vapor Intrusion Screening Levels (VISL) for Exterior Soil Gas
mg/m^3-	milligrams per cubic meter
NL-	Analyte not listed in EPA VISLs for Soil Gas
BOLD-	analytical result exceeded EPA VISLs for Soil Gas
ND-	Analyte not detected
U-	Analyte was not detected

Sources:

STAT Analysis Corporation Analytical Report dated March 10, 2014 (STAT Project No. 14020436)

5 POTENTIAL SITE RELATED THREATS

Threats posed by on-site contamination and Site condition were evaluated in accordance with the National Oil and hazardous Substances Pollution Contingency Plan (NCP) criteria for initiating a removal action listed under Title 40 of the CFR, Section 300.415(b) (2). Paragraph (b) (2) of 40 CFR Section 300.415 lists factors to be considered when determining the appropriateness of a potential removal action at a Site. Potential site-related threats to human health and the environment were evaluated based on the criteria listed in 40 CFR, Sections 261.20 through 261.31. Factors that may be applicable to the Site are discussed below.

Actual or potential exposure of nearby human populations, animals, or the food chain to hazardous substances or pollutants or contaminants (40 CFR 300.415(b)(2)(i))

Soil gas sample DSVI-3228NA indicated a chloroform concentration of 0.11 mg/m^3. The EPA VISLs for chloroform is 0.11 mg/m^3. The Centers for Disease Control and Prevention (CDC) lists symptoms for chloroform to include mental dullness, nausea, and confusion. Chloroform is capable of causing anesthesia and an enlarged liver.

The soil gas sample DSVI-248SLS indicated VISL exceedences of tetrachloroethene with a result of 3.1 mg/m^3. The EPA VISL for tetrachloroethene is 1.3 mg/m^3. The CDC lists tetrachloroethene as capable of causing irritation to the eyes, skin, nose, throat, and respiratory system. Other symptoms include nausea, skin erythema, and liver damage.

Soil gas samples DSVI-305SDS, DSVI-301SLS, DSVI-248SLS, and DSVI-3228NA indicated VISL exceedences of trichloroethene with a result of 0.052, 0.16, 4.2, and 2.1 mg/m^3 respectively. The EPA VISL for trichloroethene is 0.021 mg/m^3. According to the CDC, symptoms of trichloroethene include headache, visual disturbance, lassitude, cardiac arrhythmias, and liver damage. Trichloroethene, chloroform, tetrachloroethene are all also considered to be potential occupational carcinogens.

The presence these compounds in soil gas pose a threat to nearby residents through direct exposure because of proximity of the houses to the sample locations. There is a potential likelihood for soil gas vapors to migrate beneath the house structures and into the living spaces, thereby causing potential exposure to residents.

Weather conditions that may cause substances or pollutants or contaminants to migrate or be released

Rain water and snow melt can mobilize contaminants toward the water table and also lead to migration of contaminated drinking water supply. It would also be possible for contaminants to migrate off the property via runoff onto the adjacent down gradient properties.

The availability of other appropriate federal or state response mechanisms to respond to the release

The Marion County Public Health Department (MCPHD) and the Indiana Department of Environmental Management (IDEM) requested U.S. EPA Region 5 Superfund Division to help evaluate and mitigate any environmental and human health threats posed by the Dearborn Street VI Site. This request was made to the U.S. EPA in order to conduct a time critical removal action.

6 SUMMARY

On February 18 through February 20, 2014, U.S. EPA, IDEM, and START conducted a SA at the Dearborn Street VI Site in Indianapolis, IN. Soil borings were installed in the right-of-way of the residences and screened with the MultiRAE® Plus for VOCs. Sub-surface soil gas samples were collected from these borings and submitted for total VOC analyses.

Sample analytical results were evaluated against the EPA Vapor Intrusion Screening Levels. Four of the 15 samples collected indicated analytical results above their VISL values for chloroform, tetrachloroethene, and trichloroethene. TCE was detected above the applicable VISL value in three of the five samples collected along the S. Lasalle Street and one sample collected along the S. Dearborn Street. Chloroform and PERC were also detected above their respective VISL values along with TCE in the S. Lasalle Street samples.

The presence of these hazardous vapors may pose a threat to nearby residents through direct exposure since the Site is located within a residential community and each of the samples were collected within close proximity of the homes. In addition, it is currently unknown if such vapors persist inside the residences where right-of-way areas were sampled and determined to have hazardous constituents in the soil gas samples. Additional sub-slab or indoor air sampling of these residences would provide key information to determine if abatement activities are necessary in the Site area.

7 REFERENCES

1. EPA Technical Documents and Tools Prepared to Support Guidance Development. http://www.epa.gov/oswer/vaporintrusion/guidance.html. Accessed February 18, 2014.

2. Centers for Disease Control and Prevention (CDC). NIOSH Pocket Guide to Chemical Hazards (2010).

APPENDIX A

SOIL BORING LOGS

39.76792472°N
86.11163874°W

17 S Gray Street

OTIE
Oneida Total Integrated Enterprises

Project: Dearborn Street VI Site		Soil Boring Identification:	DSVI-17565
Project #: 2010101	Phase: 1040	Logged by: Christopher Redfearn	
License No.:		Checked by:	
Driller: S. McIntyre		Start: 1025	End: 1055
Crew Chief: IDEM		Method: Geoprobe® Direct Push	
Elevations: Unknown	Surface: Grass	Casing: NA	Cover: NA
Water Depth: 10'	at Drilling: NA	at Completion: NA	Measurement Date: NA
Number/ Type of Samples:	1 Air	Total Depth (ft): 10'	Borehole Diameter: 1.5"

Sample Time	Sample Length	Depth Feet	Well Diagram	Graphic Log	Description	Multi-Rae Readings VOC (ppm)	Sample Identification
		1 2 3			0-22" grass & top soil, dark brown loam 22-23" red brick	0	
		4 5 6			23-35" dark brown silty clay 35-40" dark medium brown mottled silty clay	0	
		7 8 9			40-49" dark medium brown/ greyish silty clay	0	
		10 11 12			0-18" Dark medium brown 18-36" redish brow & grey 36-45" mottled silty clay gravel float	0	
		13 14 15 16			45-60" medium brown and grey silty clay soft and sticky		
		17 18 19 20					

0-5' 49" of recovery
5-10' 100% recovery

Screen at 8'

39.76182878°N
86.10931826°W

LaSalle & Clayton

OTIE
Oneida Total Integrated Enterprises

Project: Dearborn Street VI Site			Soil Boring Identification:	DSVI - 4415LS	
Project #: 2010101	Phase: 1040		Logged by: Christopher Redfearn		
License No.:			Checked by:		
Driller: S. McIntyre			Start: 1130	End: 1200	
Crew Chief: IDEM			Method: Geoprobe® Direct Push		
Elevations: Unknown	Surface: Grass		Casing: NA	Cover: NA	
Water Depth: 8'	at Drilling: NA		at Completion: NA	Measurement Date: NA	
Number/ Type of Samples:	1	Air	Total Depth (ft): 10'	Borehole Diameter: 1.5"	

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	Multi-Rae Readings VOC (ppm)	Sample Identification
		1 2 3			~~Dark brown~~ Grass Dark brown to reddish brown clayey silt with increasing clay content towards bottom	0	
		4 5 6				0	
		7 8 9				0	
		10 11 12			silty clay 8.25"-10" wet sand and gravel	0	
		13 14 15 16			10" - medium brown silty clay w/ gravel float damp increasing silt content towards bottom		
		17 18 19 20					

0-5' - 43" of recovery
5-10' - 100% recovery

screen at 6'

39.76179349°N
86.11050587°W

Clayton & Dearborn

OTIE
Oneida Total Integrated Enterprises

Project: Dearborn Street VI Site		Soil Boring Identification:	DSVI-359SDS
Project #: 2010101	Phase: 1040	Logged by: Christopher Redfearn	
License No.:		Checked by:	
Driller: S. McIntyre		Start: 1415	End: 1445
Crew Chief: NDEM		Method: Geoprobe® Direct Push	
Elevations: Unknown	Surface: Grass	Casing: NA	Cover: NA
Water Depth: 8'	at Drilling: NA	at Completion: NA	Measurement Date: NA
Number/ Type of Samples: 1	Air	Total Depth (ft): 10'	Borehole Diameter: 1.5"

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	Multi-Rae Readings VOC (ppm)	Sample Identification
		1 2 3			0- Dark brown loam to medium brown clayey silt w/ increasing clay content at bottom silty clay	0	
		4 5 6				0	
		7 8 9				0	
		10 11 12			medium brown silty clay	0	
		13 14 15 16			44"-46" wet thin sand unit 46"- Siltly clay		
		17 18 19 20					

0-5' 57" of recovery
5-10' 100% recovery

screen at 6'

39.76528309°N
86.11678864°W
Back Alley Newton
3106 Newton

OTIE
Oneida Total Integrated Enterprises

Project: Dearborn Street VI Site		Soil Boring Identification:	DSVI-3106NA
Project #: 2010101	Phase: 1040	Logged by: Christopher Redfearn	
License No.:		Checked by:	
Driller: S. McIntyre		Start: 1515	End: 1545
Crew Chief: IDEM		Method: Geoprobe® Direct Push	
Elevations: Unknown	Surface: Grass	Casing: NA	Cover: NA
Water Depth: 17'	at Drilling: NA	at Completion: NA	Measurement Date: NA
Number/ Type of Samples:	1 Air	Total Depth (ft): 20'	Borehole Diameter: 15"

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	Multi-Rae Readings VOC (ppm)	Sample Identification
		1 2 3			0-17" dark brown loam 17-24" dark brown silty clay	0	
		4 5 6			24-28" dark brown loam 28- reddish brown silty clay w/ gravel float	0	
		7 8 9			0-5" silty brown clay 5-8" dark brown loam	0	
		10 11 12			8-48" reddish brown silty clay w/ increasing clay content at bottom	0	
		13 14 15 16			0-32" reddish brown sand w/ gravel 32-46" reddish brown silty clay wet w/ increasing clay content		
		17 18 19 20			medium brown clayey silt		

0-5' 45" of recovery
5-10' 48" of recovery
10-15' 46" of recovery
15-20' 46" of recovery

0-12" Dark brown staining silty clay
12-30" Clayey silt
30"-46" wet sandy clay

Screen at 15'

39.76417305°N
86.1095365°W

OTIE
Oneida Total Integrated Enterprises

248 S. LaSalle

Project: Dearborn Street VI Site			Soil Boring Identification:		DSVI - 248SLS
Project #: 2010101	Phase: 1040		Logged by: Christopher Redfearn		
License No.:			Checked by:		
Driller: S. McIntyre			Start: 1230	End: ~~1245~~ 1300	
Crew Chief: IDEM			Method: Geoprobe® Direct Push		
Elevations: Unknown	Surface: Grass		Casing: NA	Cover: NA	
Water Depth: 10'	at Drilling: NA		at Completion: NA	Measurement Date: NA	
Number/ Type of Samples:	1 Air		Total Depth (ft): 15'	Borehole Diameter: 1.5"	

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	Multi-Rae Readings VOC (ppm)	Sample Identification
0-5'	60" rec.	1 2 3			0-9" Grass and dk. brown silty loam	0	
		4 5 6			9"-60" Reddish brown damp silty clay, moist at 60". Gravel float	0	
5-10"	70%	7 8 9	8'		Same as above. Soft.	0	
		10 11 12			~~Becoming~~ Increasing water content at 24"	0	
10-15'	50%	13 14 15 16			Soft, reddish brown silty clay, gravel float, moist		
		17 18 19 20			Bottom 4" sand & gravel		

39.763435612°N
86.109 37101°W

301 Casalle

OTIE
Oneida Total Integrated Enterprises

Project: Dearborn Street VI Site		Soil Boring Identification:	DSVI - 301SCS
Project #: 2010101	Phase: 1040	Logged by: Christopher Redfearn	
License No.:		Checked by:	
Driller: S. McIntyre		Start: 1200	End: 1230
Crew Chief: IDEM		Method: Geoprobe® Direct Push	
Elevations: Unknown	Surface: Grass	Casing: NA	Cover: NA
Water Depth: 10'	at Drilling: NA	at Completion: NA	Measurement Date: NA
Number/ Type of Samples:	1 Air	Total Depth (ft): 15'	Borehole Diameter: 1.5"

Sample Time	Sample Length	Depth Feet	Well Diagram	Graphic Log	Description	Multi-Rae Readings VOC (ppm)	Sample Identification
		1 2 3			organic matter dark brown reddish brown silt bottom 12" silty clay 0-32" wet silty clay gravel float	0	
		4 5 6				0	
		7 8 9				0	
		10 11 12			32-46" silt reddish brown moist gravel float some clay 0-22" wet reddish brown silty clay gravel float	0	
		13 14 15 16					
		17 18 19 20			22-25" precoarse sand 25-29 coarser sand & gravel 26-27" fine grain sand	0	

0-5' 46" of recovery
5-10' 46" of recovery
10-15' 44" of recovery

screen at 8'

39.76452190°N
86.11053442°W

233 Dearborn

OTIE
Oneida Total Integrated Enterprises

Project: Dearborn Street VI Site		Soil Boring Identification:	DSVI-233SDS
Project #: 2010101	Phase: 1040	Logged by: Christopher Redfearn	
License No.:		Checked by:	
Driller: S. McIntyre		Start: 1320	End: 1350
Crew Chief: IOEM		Method: Geoprobe® Direct Push	
Elevations: Unknown	Surface: Grass	Casing: NA	Cover: NA
Water Depth: 5'	at Drilling: NA	at Completion: NA	Measurement Date: NA
Number/ Type of Samples:	1 Air	Total Depth (ft): 10'	Borehole Diameter: 1.5"

Sample Time	Sample Length	Depth Feet	Well Diagram	Graphic Log	Description	Multi-Rae Readings VOC (ppm)	Sample Identification
		1 2 3			medium brown loam silty clay	0	
		4 5 6			reddish brown clayey silt gravel float with increasing moisture content	0	
		7 8 9				0	
		10 11 12			0-16" silty clay	0	
		13 14 15 16			16-60" clayey silt, very dry, hard, gravel float		
		17 18 19 20					

0-5' 57" of recovery
5-10' 100% recover

Screen at 3'

39.763909990°N
86.11179592°W

OTIE
Oneida Total Integrated Enterprises

252 S. Gray St.

Project: Dearborn Street VI Site			Soil Boring Identification:		
Project #: 2010101	Phase: 1040		Logged by: Christopher Redfearn		
License No.:			Checked by:		
Driller: S. McIntyre			Start: 1445	End: 1515	
Crew Chief: IOEM			Method: Geoprobe® Direct Push		
Elevations: Unknown	Surface: Grass		Casing: NA	Cover: NA	
Water Depth: 5'	at Drilling: NA		at Completion: NA	Measurement Date: NA	
Number/ Type of Samples:	1	Air	Total Depth (ft): 10'	Borehole Diameter: 1.5"	

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	Multi-Rae Readings VOC (ppm)	Sample Identification
0-5	95% rec.	1 2 3 4 5 6 7 8 9	3'		0-9" Grass, Dk. brown silt loam 9"-4.5'- Reddish brown silty clay, damp 4.5-5' Wet reddish brown silt, soft	0 0 0	
5-10	70%	10 11 12 13 14 15 16			0-6" same as above 6"- Med brown, fine grained well sorted sand, trace gravel, moist		
		17 18 19 20			Bottom 12" - Med. brown silty clay, moist		

39.76503746°N
86.10959884°W
3228NA

OTIE
Oneida Total Integrated Enterprises

Project: Dearborn Street VI Site		Soil Boring Identification:	DSVI-3228NA
Project #: 2010101	Phase: 1040	Logged by: Christopher Redfearn	
License No.:		Checked by:	
Driller: S. McIntyre		Start: 1250	End: 1320
Crew Chief: IDEM		Method: Geoprobe® Direct Push	
Elevations: Unknown	Surface: Grass	Casing: NA	Cover: NA
Water Depth: 12'	at Drilling: NA	at Completion: NA	Measurement Date: NA
Number/ Type of Samples: 1 Air		Total Depth (ft): 20'	Borehole Diameter: 1.5"

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	Multi-Rae Readings VOC (ppm)	Sample Identification
		1 2 3			0-9" dark brown loam 9-13" reddish brown loam 13-41" silty clay reddish brown	0	
		4 5 6				0	
		7 8 9			0-12" reddish brown silty clay 12-36" clayey silt	0	
		10 11 12			36-44" clayey sand and gravel 44 greyish coarse sand.	0	
		13 14 15 16			0-6" clayey silt 6- coarse sand & gravel		
		17 18 19 20			0-4" silty clay wet 4-56" Sand and gravel		

0-5' - 41" of recovery
5-10' - 55" of recovery
10-15' - 48" of recovery
15-20' - 56" of recovery

39.763207 95°N
86.110534 33°W
305 S Dearborn

OTIE
Oneida Total Integrated Enterprises

Project: Dearborn Street VI Site		Soil Boring Identification:	DSVI-305SDJ
Project #: 2010101	Phase: 1040	Logged by: Christopher Redfearn	
License No.:		Checked by:	
Driller: S. McIntyre		Start:	End:
Crew Chief: DGM		Method: Geoprobe® Direct Push	
Elevations: Unknown	Surface: Grass	Casing: NA	Cover: NA
Water Depth: 10'	at Drilling: NA	at Completion: NA	Measurement Date: NA
Number/ Type of Samples: 1	Air	Total Depth (ft): 10'	Borehole Diameter: 1.5"

Sample							
Time	Length	Depth Feet	Well Diagram	Graphic Log	Description	Multi-Rae Readings VOC (ppm)	Sample Identification
		1 2 3			0-14" Grass, dark brown loam	0	
		4 5 6			14-24" medium brown clayey silt	0	
		7 8 9			24-33" clayey silt red brown 33-43" grey brown clayey silt damp.	0	
		10 11 12			0-16" brown reddish & grey motteled clay silty soft clay	0	
		13 14 15 16			reddish gray brown gravel float trace sand		
		17 18 19 20			silty clay brown wet ~~sand~~ trace sand		

0-5' 43" at recovery
5-10' 100% recovery

Screen at 8'

43 S Lasalle

OTIE
Oneida Total Integrated Enterprises

Project: Dearborn Street VI Site		Soil Boring Identification:	
Project #: 2010101	Phase: 1040	Logged by: Christopher Redfearn	
License No.:		Checked by:	
Driller: S. McIntyre		Start: 1100	End: 1130
Crew Chief: Tom		Method: Geoprobe® Direct Push	
Elevations: Unknown	Surface: Grass	Casing: NA	Cover: NA
Water Depth: 10'	at Drilling: NA	at Completion: NA	Measurement Date: NA
Number/ Type of Samples: 1 Air		Total Depth (ft): 9'	Borehole Diameter: 1.5'

Sample Time	Sample Length	Depth Feet	Well Diagram	Graphic Log	Description	Multi-Rae Readings VOC (ppm)	Sample Identification
		1–3			0-10" dark brown loam 10-18" silt reddish brown 18"-24 silty clay hard	0	
		4–6			24"-32 tree root 32"-41 soft	0	
		7–9			41"-54 softer & moist gravel float	0	
		10–12			0-12 wet silty clay 12-47 wet sand & silt fine sand, increasing coarser sand		
		13–16					
		17–20					

0-5' 54" of recovery
5-10' 47" of recovery

screen at 3.5'

APPENDIX B

VALIDATED ANALYTICAL DATA PACKAGE

Oneida Total Integrated Enterprises
29 South LaSalle St. Suite 930 ● Chicago, IL 60603 ● (312) 220-7004 ● (312) 220-7004 (Fax)

MEMORANDUM

Date:	March 27, 2014
To:	Christopher Redfearn, Project Manager, OTIE Superfund Technical Assessment and Response Team (START) for Region 5
Prepared by:	Nairimer Berrios-Cartagena, START scientist for Region 4
QA/QC Concurrence by:	Limari Krebs, START Senior Chemist for Region 4
Subject:	Data Validation for Dearborn Street VI Site Indianapolis, Indiana TDD is TO-01-13-12-1033 Laboratory: STAT Analysis Corporation, Chicago, Illinois Lab Order (LO): 14020436

1.0 INTRODUCTION

The START scientist for Region 4 validated analytical data for 15 air samples for Volatiles Organic Compounds (VOCs) collected using SUMMA® canisters. Samples were collected at the Dearborn Street VI in Indianapolis, Indiana on March 20, 2014. The samples were analyzed under Lab Order 14020436 by STAT Analysis Corporation, Chicago, Illinois using U.S. Environmental Protection Agency (U.S. EPA) method TO-15.

Laboratory data was validated using guidelines set forth in the U.S. EPA Contract Laboratory Program National Functional Guidelines for Organic (EPA 540-R-08-01, June 2008) applicable methodologies and using the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air Second Edition: Method TO-15 (EPA/625/R-96/010b, January 1999). The purpose of the chemical data quality evaluation process is to assess the usability of data for the project decision-making process.

Organic data validation consisted of a review of the following QC audits:

- Chain of custody and sample receipt forms review
- Sample preservation and holding time
- Blank results
- MS/MSD recovery results
- Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD) recovery results

Section 2.0 of this memorandum discusses the results of organic data validation. Section 3.0 presents an overall assessment of the data. The attachment to this memorandum contains the laboratory reporting forms as well as START's handwritten data qualifications where warranted.

2.0 ORGANIC DATA VALIDATION RESULTS

The results of START's organic data validation are summarized below by QC audit reviewed. The data qualifiers listed below were applied to sample analytical results where warranted (see attachment):

- U – The analyte was not detected.

After the START project staff received the data package, it was inventoried for completeness and then reviewed according to matrix-specific protocols and data quality objectives established for the project.

2.1 AIR SAMPLES BY METHOD TO-15

2.1.1 SAMPLE HANDLING

Chain of custody documentation and sample receipt forms were reviewed to ensure requested analysis was performed and that samples arrived at the laboratory intact with the exception of one sample container received with no sample identification. Laboratory personnel found SUMMA canister #1725 did not have a sample ID; sample receiver called the project manager and was notified the canister corresponded to sample ID DSV1-441SLS.

The sample collection date listed on the chain of custody read "3/20/14" for the samples received.

2.1.2 SAMPLE PRESERVATION AND HOLDING TIME

The samples were extracted on March 21, 2014 and analyzed on March 22-25, 2014. VOC samples were analyzed within holding time criteria. No discrepancies were noted.

2.1.3 BLANK RESULTS

The purpose of laboratory blank analysis is to determine the existence and magnitude of contamination resulting from laboratory activities. A laboratory method blank sample (MB022214-6) was run with this laboratory order.

The following analytes were detected in the method blank samples in two different batches:

- Batch ID R96723 – Bromomethane (0.0001553 mg/m^3) and Propene (0.0001205 mg/m^3); prepared in March 22-23, 2014 for sample target analytes that had a 1/25 dilution factor.
- Batch ID R96732 – Acetone (0.0004988 mg/m^3), Bromomethane (0.0001942 mg/m^3), Hexane (0.00007049 mg/m^3) and Methylene chloride (0.0007989 mg/m^3); prepared in March 22-23, 2014 for sample target analytes that had a 1/1 or 1/2 dilution factor.
- In both batches the results of these analytes in the method blank is less than the CQRL. Sample results will be evaluated based on the correspondent rules explained in the National Functional Guidelines for Organic (EPA 540-R-08-01, June 2008), Section E. Action in Page 26.

The following samples were flagged as follow:

- DSVI-441SLS - hexane result was flagged with a "U"
- DSVI-248SLS - hexane result was flagged with a "U", and
- DSVI-3228NA – methylene chloride result flagged with a "U"

STAT Analysis Corporation did not provide an explanation for methods blank contamination.

2.1.4 MS/MSD RECOVERY RESULTS

Data for MS/MSDs are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis.

STAT Analytical Corporation did not provide the MS/MSD information for this laboratory order. Therefore, the MS and MSD cannot be evaluated.

2.1.5 LCS and LCSD RECOVERY RESULTS

Data for the LCS/LCSD is generated to provide information on the accuracy of the analytical method and on the laboratory performance. The LCS/LCSD were fortified with the full list of VOCs and analyzed with each batch of samples. The LCS/LCSD accuracy performance is measured by %REC.

LCS/LCSD recoveries were within limits. Also the relative percentage of difference (RPD) between LCS and its respective LCSD, was also within limits therefore no need to assign a qualifier.

2.1.6 GENERAL LABORATORY OBSERVATIONS

The laboratory noted that all samples were diluted significantly due to the abundance of target analytes. Therefore, elevated reporting limits are provided.

The laboratory noted that samples DSV1-67SDS, DSV1-67SDS, DSV1-248SLS, DSV1-3228NA, DSV1-233SDS, DSV1-305SDS, DSV1-252GS and DSV1-3106NA, were diluted (1/25 dilution factor) due to high concentrations of target analytes:

- DSV1-67SDS for toluene
- DSV1-67SDS for hexane and propene
- DSV1-248SLS for 1,1,1-trichloroethane, tetrachloroethene and trichloroethene
- DSV1-3228NA for 1,1,1-trichloroethane and trichloroethene
- DSV1-233SDS for propene
- DSV1-305SDS for propene
- DSV1-252GS for isopropyl alcohol
- DSV1-3106NA for hexane

Target analytes that exceeded the upper calibration range in the initial run are reported from the dilution run.

3.0 OVERALL ASSESSMENT OF DATA

The analytical results meet the data quality objectives defined by the applicable method and validation guidance documentation. The analytical data is usable and acceptable after the assigned qualifiers provided after the data validation.

ATTACHMENT

SUMMARY OF ANALYTICAL RESULTS

AND

CHAIN-OF-CUSTODY

TDD#: TO-01-13-12-1033

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001;AIHA 101160; NVLAP LabCode 101202-

March 19, 2014

Oneida Total Integrated Enterprises (OTIE)
29 South LaSalle Street, Suite 930
Chicago, IL 60603
Telephone: (312) 220-7004
Fax: (312) 220-7004

Analytical Report for STAT Workorder: 14020436 Revision 1

RE: 2010101-1040, Dearborn Street VI Site

Dear Chris Redfearn:

STAT Analysis received 15 samples for the referenced project on 2/21/2014 11:30:00 AM. The analytical results are presented in the following report.

This report is revised to reflect changes made after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Frank Capoccia
Project Manager

STAT Analysis Corporation

Date: March 19, 2014

Client: Oneida Total Integrated Enterprises (OTIE)
Project: 2010101-1040, Dearborn Street VI Site
Lab Order: 14020436

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
14020436-001A	DSV1-71STS		2/20/2014 8:30:00 AM	2/21/2014
14020436-002A	DSV1-69SLS		2/20/2014 9:00:00 AM	2/21/2014
14020436-003A	DSV1-67SDS		2/20/2014 9:30:00 AM	2/21/2014
14020436-004A	DSV1-43SGS		2/20/2014 9:45:00 AM	2/21/2014
14020436-005A	DSV1-17SGS		2/20/2014 10:25:00 AM	2/21/2014
14020436-006A	DSV1-441SLS		2/20/2014 11:30:00 AM	2/21/2014
14020436-007A	DSV1-301SLS		2/20/2014 12:00:00 PM	2/21/2014
14020436-008A	DSV1-248 SLS		2/20/2014 12:30:00 PM	2/21/2014
14020436-009A	DSV1-3228 NA		2/20/2014 12:50:00 PM	2/21/2014
14020436-010A	DSV1-233SDS		2/20/2014 1:20:00 PM	2/21/2014
14020436-011A	DSV1-305SDS		2/20/2014 1:45:00 PM	2/21/2014
14020436-012A	DSV1-359SDS		2/20/2014 2:15:00 PM	2/21/2014
14020436-013A	DSV1-252SGS		2/20/2014 2:45:00 PM	2/21/2014
14020436-014A	DSV1-3106NA		2/20/2014 3:15:00 PM	2/21/2014
14020436-015A	DSV1-AA		2/20/2014 12:50:00 PM	2/21/2014

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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-001

Client Sample ID: DSV1-71STS
Collection Date: 2/20/2014 8:30:00 AM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
1,1,1-Trichloroethane	ND	0.0016		mg/m³	1	2/24/2014
1,1,2,2-Tetrachloroethane	ND	0.00049		mg/m³	1	2/24/2014
1,1,2-Trichloroethane	ND	0.00039		mg/m³	1	2/24/2014
1,1-Dichloroethane	ND	0.0012		mg/m³	1	2/24/2014
1,1-Dichloroethene	ND	0.0011		mg/m³	1	2/24/2014
1,2,4-Trichlorobenzene	ND	0.0021		mg/m³	1	2/24/2014
1,2,4-Trimethylbenzene	ND	0.0014		mg/m³	1	2/24/2014
1,2-Dibromoethane	ND	0.00055		mg/m³	1	2/24/2014
1,2-Dichlorobenzene	ND	0.0017		mg/m³	1	2/24/2014
1,2-Dichloroethane	ND	0.00029		mg/m³	1	2/24/2014
1,2-Dichloropropane	ND	0.00033		mg/m³	1	2/24/2014
1,3,5-Trimethylbenzene	ND	0.0014		mg/m³	1	2/24/2014
1,3-Butadiene	ND	0.00063		mg/m³	1	2/24/2014
1,3-Dichlorobenzene	ND	0.0017		mg/m³	1	2/24/2014
1,4-Dichlorobenzene	ND	0.00043		mg/m³	1	2/24/2014
1,4-Dioxane	ND	0.0052		mg/m³	1	2/24/2014
2-Butanone	ND	0.0021		mg/m³	1	2/24/2014
2-Hexanone	ND	0.0059		mg/m³	1	2/24/2014
4-Ethyltoluene	ND	0.0014		mg/m³	1	2/24/2014
4-Methyl-2-pentanone	ND	0.0059		mg/m³	1	2/24/2014
Acetone	0.014	0.0068	*	mg/m³	1	2/24/2014
Benzene	0.0018	0.00091		mg/m³	1	2/24/2014
Benzyl chloride	ND	0.0037		mg/m³	1	2/24/2014
Bromodichloromethane	ND	0.00048		mg/m³	1	2/24/2014
Bromoform	ND	0.0074		mg/m³	1	2/24/2014
Bromomethane	ND	0.0028		mg/m³	1	2/24/2014
Carbon disulfide	0.0065	0.00089		mg/m³	1	2/24/2014
Carbon tetrachloride	ND	0.0018		mg/m³	1	2/24/2014
Chlorobenzene	ND	0.0013		mg/m³	1	2/24/2014
Chloroethane	ND	0.00075		mg/m³	1	2/24/2014
Chloroform	ND	0.00035		mg/m³	1	2/24/2014
Chloromethane	ND	0.0015		mg/m³	1	2/24/2014
cis-1,2-Dichloroethene	ND	0.0011		mg/m³	1	2/24/2014
cis-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Cyclohexane	0.0025	0.00098		mg/m³	1	2/24/2014
Dibromochloromethane	ND	0.00061		mg/m³	1	2/24/2014
Dichlorodifluoromethane	0.0022	0.0014		mg/m³	1	2/24/2014
Ethyl acetate	ND	0.001		mg/m³	1	2/24/2014

Qualifiers:
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-001

Client Sample ID: DSV1-71STS
Collection Date: 2/20/2014 8:30:00 AM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
Ethylbenzene	ND	0.0012		mg/m³	1	2/24/2014
Freon-113	ND	0.0022		mg/m³	1	2/24/2014
Freon-114	ND	0.01		mg/m³	1	2/24/2014
Heptane	0.005	0.0012		mg/m³	1	2/24/2014
Hexachlorobutadiene	ND	0.003		mg/m³	1	2/24/2014
Hexane	0.0059	0.0025		mg/m³	1	2/24/2014
Isopropyl Alcohol	0.0037	0.0035		mg/m³	1	2/24/2014
m,p-Xylene	ND	0.0025		mg/m³	1	2/24/2014
Methyl tert-butyl ether	ND	0.001		mg/m³	1	2/24/2014
Methylene chloride	ND	0.0099		mg/m³	1	2/24/2014
o-Xylene	ND	0.0012		mg/m³	1	2/24/2014
Propene	ND	0.0049		mg/m³	1	2/24/2014
Styrene	ND	0.0012		mg/m³	1	2/24/2014
Tetrachloroethene	ND	0.0019		mg/m³	1	2/24/2014
Tetrahydrofuran	ND	0.0021		mg/m³	1	2/24/2014
Toluene	0.0034	0.0011		mg/m³	1	2/24/2014
trans-1,2-Dichloroethene	ND	0.0011		mg/m³	1	2/24/2014
trans-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Trichloroethene	ND	0.0015		mg/m³	1	2/24/2014
Trichlorofluoromethane	ND	0.0016		mg/m³	1	2/24/2014
Vinyl acetate	ND	0.01		mg/m³	1	2/24/2014
Vinyl chloride	ND	0.00018		mg/m³	1	2/24/2014
Xylenes, Total	ND	0.0037		mg/m³	1	2/24/2014

Qualifiers:
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ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-002

Client Sample ID: DSV1-69SLS
Collection Date: 2/20/2014 9:00:00 AM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
1,1,1-Trichloroethane	ND	0.0016		mg/m³	1	2/24/2014
1,1,2,2-Tetrachloroethane	ND	0.00051		mg/m³	1	2/24/2014
1,1,2-Trichloroethane	ND	0.0004		mg/m³	1	2/24/2014
1,1-Dichloroethane	ND	0.0012		mg/m³	1	2/24/2014
1,1-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
1,2,4-Trichlorobenzene	ND	0.0022		mg/m³	1	2/24/2014
1,2,4-Trimethylbenzene	0.0076	0.0015		mg/m³	1	2/24/2014
1,2-Dibromoethane	ND	0.00057		mg/m³	1	2/24/2014
1,2-Dichlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
1,2-Dichloroethane	ND	0.0003		mg/m³	1	2/24/2014
1,2-Dichloropropane	ND	0.00034		mg/m³	1	2/24/2014
1,3,5-Trimethylbenzene	0.0031	0.0015		mg/m³	1	2/24/2014
1,3-Butadiene	ND	0.00065		mg/m³	1	2/24/2014
1,3-Dichlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
1,4-Dichlorobenzene	ND	0.00044		mg/m³	1	2/24/2014
1,4-Dioxane	ND	0.0053		mg/m³	1	2/24/2014
2-Butanone	0.0041	0.0022		mg/m³	1	2/24/2014
2-Hexanone	ND	0.0061		mg/m³	1	2/24/2014
4-Ethyltoluene	0.0019	0.0015		mg/m³	1	2/24/2014
4-Methyl-2-pentanone	ND	0.0061		mg/m³	1	2/24/2014
Acetone	0.07	0.007		mg/m³	1	2/24/2014
Benzene	0.014	0.00095		mg/m³	1	2/24/2014
Benzyl chloride	ND	0.0038		mg/m³	1	2/24/2014
Bromodichloromethane	ND	0.0005		mg/m³	1	2/24/2014
Bromoform	ND	0.0076		mg/m³	1	2/24/2014
Bromomethane	ND	0.0029		mg/m³	1	2/24/2014
Carbon disulfide	0.004	0.00092		mg/m³	1	2/24/2014
Carbon tetrachloride	ND	0.0019		mg/m³	1	2/24/2014
Chlorobenzene	ND	0.0014		mg/m³	1	2/24/2014
Chloroethane	ND	0.00078		mg/m³	1	2/24/2014
Chloroform	ND	0.00036		mg/m³	1	2/24/2014
Chloromethane	ND	0.0015		mg/m³	1	2/24/2014
cis-1,2-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
cis-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Cyclohexane	0.026	0.001		mg/m³	1	2/24/2014
Dibromochloromethane	ND	0.00063		mg/m³	1	2/24/2014
Dichlorodifluoromethane	0.0017	0.0015		mg/m³	1	2/24/2014
Ethyl acetate	ND	0.0011		mg/m³	1	2/24/2014

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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-002

Client Sample ID: DSV1-69SLS
Collection Date: 2/20/2014 9:00:00 AM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **2/21/2014**		Analyst: **VP**
Ethylbenzene	0.0062	0.0013		mg/m³	1	2/24/2014
Freon-113	ND	0.0023		mg/m³	1	2/24/2014
Freon-114	ND	0.01		mg/m³	1	2/24/2014
Heptane	0.049	0.0012		mg/m³	1	2/24/2014
Hexachlorobutadiene	ND	0.0032		mg/m³	1	2/24/2014
Hexane	0.065	0.0026		mg/m³	1	2/24/2014
Isopropyl Alcohol	0.0043	0.0036	•	mg/m³	1	2/24/2014
m,p-Xylene	0.017	0.0026		mg/m³	1	2/24/2014
Methyl tert-butyl ether	ND	0.0011		mg/m³	1	2/24/2014
Methylene chloride	ND	0.01		mg/m³	1	2/24/2014
o-Xylene	0.0077	0.0013		mg/m³	1	2/24/2014
Propene	0.0071	0.0051	•	mg/m³	1	2/24/2014
Styrene	ND	0.0013		mg/m³	1	2/24/2014
Tetrachloroethene	ND	0.002		mg/m³	1	2/24/2014
Tetrahydrofuran	ND	0.0022		mg/m³	1	2/24/2014
Toluene	0.04	0.0011		mg/m³	1	2/24/2014
trans-1,2-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
trans-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Trichloroethene	0.0021	0.0016	•	mg/m³	1	2/24/2014
Trichlorofluoromethane	ND	0.0017		mg/m³	1	2/24/2014
Vinyl acetate	ND	0.01		mg/m³	1	2/24/2014
Vinyl chloride	ND	0.00019		mg/m³	1	2/24/2014
Xylenes, Total	0.025	0.0039		mg/m³	1	2/24/2014

Qualifiers:
ND - Not Detected at the Reporting Limit
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-003

Client Sample ID: DSV1-67SDS
Collection Date: 2/20/2014 9:30:00 AM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
1,1,1-Trichloroethane	ND	0.0016		mg/m³	1	2/24/2014
1,1,2,2-Tetrachloroethane	ND	0.0005		mg/m³	1	2/24/2014
1,1,2-Trichloroethane	ND	0.00039		mg/m³	1	2/24/2014
1,1-Dichloroethane	ND	0.0012		mg/m³	1	2/24/2014
1,1-Dichloroethene	ND	0.0011		mg/m³	1	2/24/2014
1,2,4-Trichlorobenzene	ND	0.0021		mg/m³	1	2/24/2014
1,2,4-Trimethylbenzene	0.04	0.0014		mg/m³	1	2/24/2014
1,2-Dibromoethane	ND	0.00056		mg/m³	1	2/24/2014
1,2-Dichlorobenzene	ND	0.0017		mg/m³	1	2/24/2014
1,2-Dichloroethane	0.0013	0.00029		mg/m³	1	2/24/2014
1,2-Dichloropropane	0.021	0.00033		mg/m³	1	2/24/2014
1,3,5-Trimethylbenzene	0.015	0.0014		mg/m³	1	2/24/2014
1,3-Butadiene	0.0013	0.00064		mg/m³	1	2/24/2014
1,3-Dichlorobenzene	ND	0.0017		mg/m³	1	2/24/2014
1,4-Dichlorobenzene	0.00087	0.00044		mg/m³	1	2/24/2014
1,4-Dioxane	ND	0.0052		mg/m³	1	2/24/2014
2-Butanone	0.012	0.0021		mg/m³	1	2/24/2014
2-Hexanone	ND	0.0059		mg/m³	1	2/24/2014
4-Ethyltoluene	0.012	0.0014		mg/m³	1	2/24/2014
4-Methyl-2-pentanone	ND	0.0059		mg/m³	1	2/24/2014
Acetone	0.1	0.0069	*	mg/m³	1	2/24/2014
Benzene	0.0059	0.00092		mg/m³	1	2/24/2014
Benzyl chloride	ND	0.0037		mg/m³	1	2/24/2014
Bromodichloromethane	ND	0.00048		mg/m³	1	2/24/2014
Bromoform	ND	0.0075		mg/m³	1	2/24/2014
Bromomethane	ND	0.0028		mg/m³	1	2/24/2014
Carbon disulfide	0.005	0.0009		mg/m³	1	2/24/2014
Carbon tetrachloride	ND	0.0018		mg/m³	1	2/24/2014
Chlorobenzene	ND	0.0013		mg/m³	1	2/24/2014
Chloroethane	ND	0.00076		mg/m³	1	2/24/2014
Chloroform	0.0045	0.00035		mg/m³	1	2/24/2014
Chloromethane	ND	0.0015		mg/m³	1	2/24/2014
cis-1,2-Dichloroethene	ND	0.0011		mg/m³	1	2/24/2014
cis-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Cyclohexane	0.0077	0.001		mg/m³	1	2/24/2014
Dibromochloromethane	ND	0.00062		mg/m³	1	2/24/2014
Dichlorodifluoromethane	ND	0.0014		mg/m³	1	2/24/2014
Ethyl acetate	ND	0.001		mg/m³	1	2/24/2014

Qualifiers:
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-003

Client Sample ID: DSV1-67SDS
Collection Date: 2/20/2014 9:30:00 AM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
Ethylbenzene	0.026	0.0013		mg/m³	1	2/24/2014
Freon-113	ND	0.0022		mg/m³	1	2/24/2014
Freon-114	ND	0.01		mg/m³	1	2/24/2014
Heptane	0.16	0.0012		mg/m³	1	2/24/2014
Hexachlorobutadiene	ND	0.0031		mg/m³	1	2/24/2014
Hexane	0.029	0.0026		mg/m³	1	2/24/2014
Isopropyl Alcohol	0.0059	0.0036		mg/m³	1	2/24/2014
m,p-Xylene	0.083	0.0025		mg/m³	1	2/24/2014
Methyl tert-butyl ether	ND	0.001		mg/m³	1	2/24/2014
Methylene chloride	ND	0.01		mg/m³	1	2/24/2014
o-Xylene	0.025	0.0013		mg/m³	1	2/24/2014
Propene	0.019	0.005		mg/m³	1	2/24/2014
Styrene	0.01	0.0012		mg/m³	1	2/24/2014
Tetrachloroethene	0.016	0.002		mg/m³	1	2/24/2014
Tetrahydrofuran	ND	0.0021		mg/m³	1	2/24/2014
Toluene	0.62	0.029		mg/m³	25	2/22/2014
trans-1,2-Dichloroethene	ND	0.0011		mg/m³	1	2/24/2014
trans-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Trichloroethene	0.0054	0.0016		mg/m³	1	2/24/2014
Trichlorofluoromethane	ND	0.0016		mg/m³	1	2/24/2014
Vinyl acetate	ND	0.01		mg/m³	1	2/24/2014
Vinyl chloride	ND	0.00019		mg/m³	1	2/24/2014
Xylenes, Total	0.11	0.0038		mg/m³	1	2/24/2014

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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R - RPD outside accepted recovery limits
E - Value above quantitation range
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-004

Client Sample ID: DSV1-43SGS
Collection Date: 2/20/2014 9:45:00 AM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
1,1,1-Trichloroethane	0.023	0.0017		mg/m³	1	2/24/2014
1,1,2,2-Tetrachloroethane	ND	0.00055		mg/m³	1	2/24/2014
1,1,2-Trichloroethane	ND	0.00044		mg/m³	1	2/24/2014
1,1-Dichloroethane	ND	0.0013		mg/m³	1	2/24/2014
1,1-Dichloroethene	ND	0.0013		mg/m³	1	2/24/2014
1,2,4-Trichlorobenzene	ND	0.0024		mg/m³	1	2/24/2014
1,2,4-Trimethylbenzene	0.019	0.0016		mg/m³	1	2/24/2014
1,2-Dibromoethane	ND	0.00062		mg/m³	1	2/24/2014
1,2-Dichlorobenzene	ND	0.0019		mg/m³	1	2/24/2014
1,2-Dichloroethane	ND	0.00032		mg/m³	1	2/24/2014
1,2-Dichloropropane	0.011	0.00037		mg/m³	1	2/24/2014
1,3,5-Trimethylbenzene	0.0081	0.0016		mg/m³	1	2/24/2014
1,3-Butadiene	0.026	0.00071		mg/m³	1	2/24/2014
1,3-Dichlorobenzene	ND	0.0019		mg/m³	1	2/24/2014
1,4-Dichlorobenzene	ND	0.00048		mg/m³	1	2/24/2014
1,4-Dioxane	ND	0.0058		mg/m³	1	2/24/2014
2-Butanone	0.0096	0.0024		mg/m³	1	2/24/2014
2-Hexanone	ND	0.0066		mg/m³	1	2/24/2014
4-Ethyltoluene	0.0072	0.0016		mg/m³	1	2/24/2014
4-Methyl-2-pentanone	ND	0.0066		mg/m³	1	2/24/2014
Acetone	0.028	0.0076	*	mg/m³	1	2/24/2014
Benzene	0.011	0.001		mg/m³	1	2/24/2014
Benzyl chloride	ND	0.0041		mg/m³	1	2/24/2014
Bromodichloromethane	ND	0.00054		mg/m³	1	2/24/2014
Bromoform	ND	0.0083		mg/m³	1	2/24/2014
Bromomethane	ND	0.0031		mg/m³	1	2/24/2014
Carbon disulfide	0.017	0.001		mg/m³	1	2/24/2014
Carbon tetrachloride	0.0041	0.002		mg/m³	1	2/24/2014
Chlorobenzene	ND	0.0015		mg/m³	1	2/24/2014
Chloroethane	ND	0.00084		mg/m³	1	2/24/2014
Chloroform	0.00055	0.00039		mg/m³	1	2/24/2014
Chloromethane	ND	0.0017		mg/m³	1	2/24/2014
cis-1,2-Dichloroethene	ND	0.0013		mg/m³	1	2/24/2014
cis-1,3-Dichloropropene	ND	0.0015		mg/m³	1	2/24/2014
Cyclohexane	0.1	0.0011		mg/m³	1	2/24/2014
Dibromochloromethane	ND	0.00068		mg/m³	1	2/24/2014
Dichlorodifluoromethane	ND	0.0016		mg/m³	1	2/24/2014
Ethyl acetate	ND	0.0012		mg/m³	1	2/24/2014

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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-004

Client Sample ID: DSV1-43SGS
Collection Date: 2/20/2014 9:45:00 AM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
Ethylbenzene	0.017	0.0014		mg/m³	1	2/24/2014
Freon-113	ND	0.0025		mg/m³	1	2/24/2014
Freon-114	ND	0.011		mg/m³	1	2/24/2014
Heptane	0.27	0.0013		mg/m³	1	2/24/2014
Hexachlorobutadiene	ND	0.0034		mg/m³	1	2/24/2014
Hexane	0.49	0.072		mg/m³	25	2/22/2014
Isopropyl Alcohol	0.032	0.0039		mg/m³	1	2/24/2014
m,p-Xylene	0.051	0.0028		mg/m³	1	2/24/2014
Methyl tert-butyl ether	ND	0.0012		mg/m³	1	2/24/2014
Methylene chloride	ND	0.011		mg/m³	1	2/24/2014
o-Xylene	0.013	0.0014		mg/m³	1	2/24/2014
Propene	0.72	0.14		mg/m³	25	2/22/2014
Styrene	0.0034	0.0014		mg/m³	1	2/24/2014
Tetrachloroethene	0.013	0.0022		mg/m³	1	2/24/2014
Tetrahydrofuran	ND	0.0024		mg/m³	1	2/24/2014
Toluene	0.26	0.0012		mg/m³	1	2/24/2014
trans-1,2-Dichloroethene	ND	0.0013		mg/m³	1	2/24/2014
trans-1,3-Dichloropropene	ND	0.0015		mg/m³	1	2/24/2014
Trichloroethene	0.0035	0.0017		mg/m³	1	2/24/2014
Trichlorofluoromethane	ND	0.0018		mg/m³	1	2/24/2014
Vinyl acetate	ND	0.011		mg/m³	1	2/24/2014
Vinyl chloride	ND	0.0002		mg/m³	1	2/24/2014
Xylenes, Total	0.064	0.0042		mg/m³	1	2/24/2014

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Date Reported: March 19, 2014
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ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-005

Client Sample ID: DSV1-17SGS
Collection Date: 2/20/2014 10:25:00 AM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
1,1,1-Trichloroethane	0.017	0.0016		mg/m³	1	2/24/2014
1,1,2,2-Tetrachloroethane	ND	0.00049		mg/m³	1	2/24/2014
1,1,2-Trichloroethane	ND	0.00039		mg/m³	1	2/24/2014
1,1-Dichloroethane	ND	0.0012		mg/m³	1	2/24/2014
1,1-Dichloroethene	ND	0.0011		mg/m³	1	2/24/2014
1,2,4-Trichlorobenzene	ND	0.0021		mg/m³	1	2/24/2014
1,2,4-Trimethylbenzene	0.0024	0.0014		mg/m³	1	2/24/2014
1,2-Dibromoethane	ND	0.00055		mg/m³	1	2/24/2014
1,2-Dichlorobenzene	ND	0.0017		mg/m³	1	2/24/2014
1,2-Dichloroethane	ND	0.00029		mg/m³	1	2/24/2014
1,2-Dichloropropane	ND	0.00033		mg/m³	1	2/24/2014
1,3,5-Trimethylbenzene	ND	0.0014		mg/m³	1	2/24/2014
1,3-Butadiene	0.0033	0.00063		mg/m³	1	2/24/2014
1,3-Dichlorobenzene	ND	0.0017		mg/m³	1	2/24/2014
1,4-Dichlorobenzene	ND	0.00043		mg/m³	1	2/24/2014
1,4-Dioxane	ND	0.0051		mg/m³	1	2/24/2014
2-Butanone	0.012	0.0021		mg/m³	1	2/24/2014
2-Hexanone	ND	0.0058		mg/m³	1	2/24/2014
4-Ethyltoluene	ND	0.0014		mg/m³	1	2/24/2014
4-Methyl-2-pentanone	ND	0.0058		mg/m³	1	2/24/2014
Acetone	0.094	0.0068	*	mg/m³	1	2/24/2014
Benzene	0.0024	0.00091		mg/m³	1	2/24/2014
Benzyl chloride	ND	0.0037		mg/m³	1	2/24/2014
Bromodichloromethane	ND	0.00048		mg/m³	1	2/24/2014
Bromoform	ND	0.0074		mg/m³	1	2/24/2014
Bromomethane	ND	0.0028		mg/m³	1	2/24/2014
Carbon disulfide	0.015	0.00089		mg/m³	1	2/24/2014
Carbon tetrachloride	ND	0.0018		mg/m³	1	2/24/2014
Chlorobenzene	ND	0.0013		mg/m³	1	2/24/2014
Chloroethane	ND	0.00075		mg/m³	1	2/24/2014
Chloroform	0.0012	0.00035		mg/m³	1	2/24/2014
Chloromethane	ND	0.0015		mg/m³	1	2/24/2014
cis-1,2-Dichloroethene	ND	0.0011		mg/m³	1	2/24/2014
cis-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Cyclohexane	0.0066	0.00098		mg/m³	1	2/24/2014
Dibromochloromethane	ND	0.00061		mg/m³	1	2/24/2014
Dichlorodifluoromethane	ND	0.0014		mg/m³	1	2/24/2014
Ethyl acetate	ND	0.001		mg/m³	1	2/24/2014

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Date Reported: March 19, 2014
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ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-005

Client Sample ID: DSV1-17SGS
Collection Date: 2/20/2014 10:25:00 AM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **2/21/2014**		Analyst: **VP**
Ethylbenzene	0.0013	0.0012		mg/m³	1	2/24/2014
Freon-113	ND	0.0022		mg/m³	1	2/24/2014
Freon-114	ND	0.01		mg/m³	1	2/24/2014
Heptane	0.033	0.0012		mg/m³	1	2/24/2014
Hexachlorobutadiene	ND	0.003		mg/m³	1	2/24/2014
Hexane	0.047	0.0025		mg/m³	1	2/24/2014
Isopropyl Alcohol	0.1	0.0035		mg/m³	1	2/24/2014
m,p-Xylene	0.0032	0.0025		mg/m³	1	2/24/2014
Methyl tert-butyl ether	ND	0.001		mg/m³	1	2/24/2014
Methylene chloride	ND	0.0099		mg/m³	1	2/24/2014
o-Xylene	ND	0.0012		mg/m³	1	2/24/2014
Propene	0.025	0.0049		mg/m³	1	2/24/2014
Styrene	ND	0.0012		mg/m³	1	2/24/2014
Tetrachloroethene	0.0068	0.0019		mg/m³	1	2/24/2014
Tetrahydrofuran	ND	0.0021		mg/m³	1	2/24/2014
Toluene	0.02	0.0011		mg/m³	1	2/24/2014
trans-1,2-Dichloroethene	ND	0.0011		mg/m³	1	2/24/2014
trans-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Trichloroethene	ND	0.0015		mg/m³	1	2/24/2014
Trichlorofluoromethane	ND	0.0016		mg/m³	1	2/24/2014
Vinyl acetate	ND	0.01		mg/m³	1	2/24/2014
Vinyl chloride	ND	0.00018		mg/m³	1	2/24/2014
Xylenes, Total	0.0043	0.0037		mg/m³	1	2/24/2014

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
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HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-006

Client Sample ID: DSV1-441SLS
Collection Date: 2/20/2014 11:30:00 AM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
1,1,1-Trichloroethane	ND	0.0051		mg/m³	1	2/24/2014
1,1,2,2-Tetrachloroethane	ND	0.0016		mg/m³	1	2/24/2014
1,1,2-Trichloroethane	ND	0.0013		mg/m³	1	2/24/2014
1,1-Dichloroethane	ND	0.0038		mg/m³	1	2/24/2014
1,1-Dichloroethene	ND	0.0037		mg/m³	1	2/24/2014
1,2,4-Trichlorobenzene	ND	0.0069		mg/m³	1	2/24/2014
1,2,4-Trimethylbenzene	ND	0.0046		mg/m³	1	2/24/2014
1,2-Dibromoethane	ND	0.0018		mg/m³	1	2/24/2014
1,2-Dichlorobenzene	ND	0.0056		mg/m³	1	2/24/2014
1,2-Dichloroethane	ND	0.00094		mg/m³	1	2/24/2014
1,2-Dichloropropane	ND	0.0011		mg/m³	1	2/24/2014
1,3,5-Trimethylbenzene	ND	0.0046		mg/m³	1	2/24/2014
1,3-Butadiene	ND	0.0021		mg/m³	1	2/24/2014
1,3-Dichlorobenzene	ND	0.0056		mg/m³	1	2/24/2014
1,4-Dichlorobenzene	ND	0.0014		mg/m³	1	2/24/2014
1,4-Dioxane	ND	0.017		mg/m³	1	2/24/2014
2-Butanone	0.013	0.0068		mg/m³	1	2/24/2014
2-Hexanone	ND	0.019		mg/m³	1	2/24/2014
4-Ethyltoluene	ND	0.0046		mg/m³	1	2/24/2014
4-Methyl-2-pentanone	ND	0.019		mg/m³	1	2/24/2014
Acetone	0.15	0.022	*	mg/m³	1	2/24/2014
Benzene	ND	0.003		mg/m³	1	2/24/2014
Benzyl chloride	ND	0.012		mg/m³	1	2/24/2014
Bromodichloromethane	ND	0.0016		mg/m³	1	2/24/2014
Bromoform	ND	0.024		mg/m³	1	2/24/2014
Bromomethane	ND	0.009		mg/m³	1	2/24/2014
Carbon disulfide	0.0061	0.0029		mg/m³	1	2/24/2014
Carbon tetrachloride	ND	0.0058		mg/m³	1	2/24/2014
Chlorobenzene	ND	0.0043		mg/m³	1	2/24/2014
Chloroethane	ND	0.0024		mg/m³	1	2/24/2014
Chloroform	ND	0.0011		mg/m³	1	2/24/2014
Chloromethane	ND	0.0048		mg/m³	1	2/24/2014
cis-1,2-Dichloroethene	ND	0.0037		mg/m³	1	2/24/2014
cis-1,3-Dichloropropene	ND	0.0042		mg/m³	1	2/24/2014
Cyclohexane	ND	0.0032		mg/m³	1	2/24/2014
Dibromochloromethane	ND	0.002		mg/m³	1	2/24/2014
Dichlorodifluoromethane	ND	0.0046		mg/m³	1	2/24/2014
Ethyl acetate	ND	0.0033		mg/m³	1	2/24/2014

Qualifiers:
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Accreditation Numbers:IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-006

Client Sample ID: DSV1-441SLS
Collection Date: 2/20/2014 11:30:00 AM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
Ethylbenzene	ND	0.004		mg/m³	1	2/24/2014
Freon-113	ND	0.0071		mg/m³	1	2/24/2014
Freon-114	ND	0.032		mg/m³	1	2/24/2014
Heptane	ND	0.0038		mg/m³	1	2/24/2014
Hexachlorobutadiene	ND	0.0099		mg/m³	1	2/24/2014
Hexane	0.0083	0.0082	U	mg/m³	1	2/24/2014
Isopropyl Alcohol	0.17	0.011		mg/m³	1	2/24/2014
m,p-Xylene	ND	0.0081		mg/m³	1	2/24/2014
Methyl tert-butyl ether	ND	0.0033		mg/m³	1	2/24/2014
Methylene chloride	ND	0.032		mg/m³	1	2/24/2014
o-Xylene	ND	0.004		mg/m³	1	2/24/2014
Propene	ND	0.016		mg/m³	1	2/24/2014
Styrene	ND	0.004		mg/m³	1	2/24/2014
Tetrachloroethene	ND	0.0063		mg/m³	1	2/24/2014
Tetrahydrofuran	ND	0.0068		mg/m³	1	2/24/2014
Toluene	0.014	0.0035		mg/m³	1	2/24/2014
trans-1,2-Dichloroethene	ND	0.0037		mg/m³	1	2/24/2014
trans-1,3-Dichloropropene	ND	0.0042		mg/m³	1	2/24/2014
Trichloroethene	ND	0.005		mg/m³	1	2/24/2014
Trichlorofluoromethane	ND	0.0052		mg/m³	1	2/24/2014
Vinyl acetate	ND	0.033		mg/m³	1	2/24/2014
Vinyl chloride	ND	0.00059		mg/m³	1	2/24/2014
Xylenes, Total	ND	0.012		mg/m³	1	2/24/2014

Qualifiers:
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HT - Sample received past holding time
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-007

Client Sample ID: DSV1-301SLS
Collection Date: 2/20/2014 12:00:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
1,1,1-Trichloroethane	0.14	0.0016		mg/m³	1	2/24/2014
1,1,2,2-Tetrachloroethane	ND	0.00052		mg/m³	1	2/24/2014
1,1,2-Trichloroethane	ND	0.00041		mg/m³	1	2/24/2014
1,1-Dichloroethane	ND	0.0012		mg/m³	1	2/24/2014
1,1-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
1,2,4-Trichlorobenzene	ND	0.0022		mg/m³	1	2/24/2014
1,2,4-Trimethylbenzene	0.02	0.0015		mg/m³	1	2/24/2014
1,2-Dibromoethane	ND	0.00058		mg/m³	1	2/24/2014
1,2-Dichlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
1,2-Dichloroethane	ND	0.00031		mg/m³	1	2/24/2014
1,2-Dichloropropane	ND	0.00035		mg/m³	1	2/24/2014
1,3,5-Trimethylbenzene	0.0042	0.0015		mg/m³	1	2/24/2014
1,3-Butadiene	0.0026	0.00067		mg/m³	1	2/24/2014
1,3-Dichlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
1,4-Dichlorobenzene	0.00045	0.00045	*	mg/m³	1	2/24/2014
1,4-Dioxane	ND	0.0054		mg/m³	1	2/24/2014
2-Butanone	0.0096	0.0022		mg/m³	1	2/24/2014
2-Hexanone	ND	0.0062		mg/m³	1	2/24/2014
4-Ethyltoluene	0.007	0.0015		mg/m³	1	2/24/2014
4-Methyl-2-pentanone	0.017	0.0062		mg/m³	1	2/24/2014
Acetone	0.14	0.0072	*	mg/m³	1	2/24/2014
Benzene	0.019	0.00096		mg/m³	1	2/24/2014
Benzyl chloride	ND	0.0039		mg/m³	1	2/24/2014
Bromodichloromethane	ND	0.00051		mg/m³	1	2/24/2014
Bromoform	ND	0.0078		mg/m³	1	2/24/2014
Bromomethane	ND	0.0029		mg/m³	1	2/24/2014
Carbon disulfide	0.0057	0.00094		mg/m³	1	2/24/2014
Carbon tetrachloride	ND	0.0019		mg/m³	1	2/24/2014
Chlorobenzene	ND	0.0014		mg/m³	1	2/24/2014
Chloroethane	ND	0.0008		mg/m³	1	2/24/2014
Chloroform	0.00044	0.00037	*	mg/m³	1	2/24/2014
Chloromethane	ND	0.0016		mg/m³	1	2/24/2014
cis-1,2-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
cis-1,3-Dichloropropene	ND	0.0014		mg/m³	1	2/24/2014
Cyclohexane	0.063	0.001		mg/m³	1	2/24/2014
Dibromochloromethane	ND	0.00064		mg/m³	1	2/24/2014
Dichlorodifluoromethane	ND	0.0015		mg/m³	1	2/24/2014
Ethyl acetate	ND	0.0011		mg/m³	1	2/24/2014

Qualifiers:
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-007

Client Sample ID: DSV1-301SLS
Collection Date: 2/20/2014 12:00:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
Ethylbenzene	0.016	0.0013		mg/m³	1	2/24/2014
Freon-113	ND	0.0023		mg/m³	1	2/24/2014
Freon-114	ND	0.011		mg/m³	1	2/24/2014
Heptane	0.14	0.0012		mg/m³	1	2/24/2014
Hexachlorobutadiene	ND	0.0032		mg/m³	1	2/24/2014
Hexane	0.17	0.0027		mg/m³	1	2/24/2014
Isopropyl Alcohol	0.14	0.0037		mg/m³	1	2/24/2014
m,p-Xylene	0.039	0.0026		mg/m³	1	2/24/2014
Methyl tert-butyl ether	ND	0.0011		mg/m³	1	2/24/2014
Methylene chloride	ND	0.01		mg/m³	1	2/24/2014
o-Xylene	0.014	0.0013		mg/m³	1	2/24/2014
Propene	0.01	0.0052		mg/m³	1	2/24/2014
Styrene	0.0023	0.0013		mg/m³	1	2/24/2014
Tetrachloroethene	0.27	0.002		mg/m³	1	2/24/2014
Tetrahydrofuran	ND	0.0022		mg/m³	1	2/24/2014
Toluene	0.064	0.0011		mg/m³	1	2/24/2014
trans-1,2-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
trans-1,3-Dichloropropene	ND	0.0014		mg/m³	1	2/24/2014
Trichloroethene	0.16	0.0016		mg/m³	1	2/24/2014
Trichlorofluoromethane	ND	0.0017		mg/m³	1	2/24/2014
Vinyl acetate	ND	0.011		mg/m³	1	2/24/2014
Vinyl chloride	ND	0.00019		mg/m³	1	2/24/2014
Xylenes, Total	0.053	0.0039		mg/m³	1	2/24/2014

Qualifiers:
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-008

Client Sample ID: DSV1-248 SLS
Collection Date: 2/20/2014 12:30:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
1,1,1-Trichloroethane	3.2	0.041		mg/m³	25	2/22/2014
1,1,2,2-Tetrachloroethane	ND	0.001		mg/m³	2	2/24/2014
1,1,2-Trichloroethane	ND	0.00082		mg/m³	2	2/24/2014
1,1-Dichloroethane	0.017	0.0024		mg/m³	2	2/24/2014
1,1-Dichloroethene	0.0053	0.0024		mg/m³	2	2/24/2014
1,2,4-Trichlorobenzene	ND	0.0045		mg/m³	2	2/24/2014
1,2,4-Trimethylbenzene	0.04	0.003		mg/m³	2	2/24/2014
1,2-Dibromoethane	ND	0.0012		mg/m³	2	2/24/2014
1,2-Dichlorobenzene	ND	0.0036		mg/m³	2	2/24/2014
1,2-Dichloroethane	ND	0.00061		mg/m³	2	2/24/2014
1,2-Dichloropropane	ND	0.0007		mg/m³	2	2/24/2014
1,3,5-Trimethylbenzene	0.011	0.003		mg/m³	2	2/24/2014
1,3-Butadiene	ND	0.0013		mg/m³	2	2/24/2014
1,3-Dichlorobenzene	ND	0.0036		mg/m³	2	2/24/2014
1,4-Dichlorobenzene	ND	0.00091		mg/m³	2	2/24/2014
1,4-Dioxane	ND	0.011		mg/m³	2	2/24/2014
2-Butanone	0.0055	0.0044		mg/m³	2	2/24/2014
2-Hexanone	ND	0.012		mg/m³	2	2/24/2014
4-Ethyltoluene	0.013	0.003		mg/m³	2	2/24/2014
4-Methyl-2-pentanone	0.052	0.012		mg/m³	2	2/24/2014
Acetone	0.028	0.014	*	mg/m³	2	2/24/2014
Benzene	0.01	0.0019		mg/m³	2	2/24/2014
Benzyl chloride	ND	0.0078		mg/m³	2	2/24/2014
Bromodichloromethane	ND	0.001		mg/m³	2	2/24/2014
Bromoform	ND	0.016		mg/m³	2	2/24/2014
Bromomethane	ND	0.0059		mg/m³	2	2/24/2014
Carbon disulfide	0.0039	0.0019		mg/m³	2	2/24/2014
Carbon tetrachloride	ND	0.0038		mg/m³	2	2/24/2014
Chlorobenzene	ND	0.0028		mg/m³	2	2/24/2014
Chloroethane	ND	0.0016		mg/m³	2	2/24/2014
Chloroform	0.0047	0.00074		mg/m³	2	2/24/2014
Chloromethane	ND	0.0031		mg/m³	2	2/24/2014
cis-1,2-Dichloroethene	0.054	0.0024		mg/m³	2	2/24/2014
cis-1,3-Dichloropropene	ND	0.0027		mg/m³	2	2/24/2014
Cyclohexane	0.0027	0.0021		mg/m³	2	2/24/2014
Dibromochloromethane	ND	0.0013		mg/m³	2	2/24/2014
Dichlorodifluoromethane	ND	0.003		mg/m³	2	2/24/2014
Ethyl acetate	ND	0.0022		mg/m³	2	2/24/2014

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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-008

Client Sample ID: DSV1-248 SLS
Collection Date: 2/20/2014 12:30:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **2/21/2014**		Analyst: **VP**
Ethylbenzene	0.023	0.0026		mg/m³	2	2/24/2014
Freon-113	ND	0.0046		mg/m³	2	2/24/2014
Freon-114	ND	0.021		mg/m³	2	2/24/2014
Heptane	0.0061	0.0025		mg/m³	2	2/24/2014
Hexachlorobutadiene	ND	0.0064		mg/m³	2	2/24/2014
Hexane	0.0058	0.0053	U	mg/m³	2	2/24/2014
Isopropyl Alcohol	0.0083	0.0074		mg/m³	2	2/24/2014
m,p-Xylene	0.063	0.0052		mg/m³	2	2/24/2014
Methyl tert-butyl ether	ND	0.0022		mg/m³	2	2/24/2014
Methylene chloride	ND	0.021		mg/m³	2	2/24/2014
o-Xylene	0.024	0.0026		mg/m³	2	2/24/2014
Propene	ND	0.01		mg/m³	2	2/24/2014
Styrene	0.0045	0.0026		mg/m³	2	2/24/2014
Tetrachloroethene	3.1	0.053		mg/m³	25	2/22/2014
Tetrahydrofuran	ND	0.0044		mg/m³	2	2/24/2014
Toluene	0.07	0.0023		mg/m³	2	2/24/2014
trans-1,2-Dichloroethene	0.01	0.0024		mg/m³	2	2/24/2014
trans-1,3-Dichloropropene	ND	0.0027		mg/m³	2	2/24/2014
Trichloroethene	4.2	0.041		mg/m³	25	2/22/2014
Trichlorofluoromethane	ND	0.0034		mg/m³	2	2/24/2014
Vinyl acetate	ND	0.021		mg/m³	2	2/24/2014
Vinyl chloride	ND	0.00039		mg/m³	2	2/24/2014
Xylenes, Total	0.087	0.0079		mg/m³	2	2/24/2014

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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-009

Client Sample ID: DSV1-3228 NA
Collection Date: 2/20/2014 12:50:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
1,1,1-Trichloroethane	1.2	0.04		mg/m³	25	2/23/2014
1,1,2,2-Tetrachloroethane	ND	0.0016		mg/m³	1	2/24/2014
1,1,2-Trichloroethane	ND	0.0005		mg/m³	1	2/24/2014
1,1-Dichloroethane	0.0011	0.0004		mg/m³	1	2/24/2014
1,1-Dichloroethene	0.002	0.0012		mg/m³	1	2/24/2014
1,2,4-Trichlorobenzene	ND	0.0012		mg/m³	1	2/24/2014
1,2,4-Trimethylbenzene	0.0032	0.0022		mg/m³	1	2/24/2014
1,2-Dibromoethane	ND	0.0014		mg/m³	1	2/24/2014
1,2-Dichlorobenzene	ND	0.00056		mg/m³	1	2/24/2014
1,2-Dichloroethane	ND	0.0018		mg/m³	1	2/24/2014
1,2-Dichloropropane	ND	0.00029		mg/m³	1	2/24/2014
1,3,5-Trimethylbenzene	0.0005	0.00034		mg/m³	1	2/24/2014
1,3-Butadiene	ND	0.0014		mg/m³	1	2/24/2014
1,3-Dichlorobenzene	ND	0.00064		mg/m³	1	2/24/2014
1,4-Dichlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
1,4-Dioxane	ND	0.00044		mg/m³	1	2/24/2014
2-Butanone	ND	0.0052		mg/m³	1	2/24/2014
2-Hexanone	ND	0.0021		mg/m³	1	2/24/2014
4-Ethyltoluene	ND	0.006		mg/m³	1	2/24/2014
4-Methyl-2-pentanone	0.0037	0.0014		mg/m³	1	2/24/2014
Acetone	0.065	0.006	*	mg/m³	1	2/24/2014
Benzene	ND	0.0069		mg/m³	1	2/24/2014
Benzyl chloride	ND	0.00093		mg/m³	1	2/24/2014
Bromodichloromethane	0.0062	0.0038		mg/m³	1	2/24/2014
Bromoform	ND	0.00049		mg/m³	1	2/24/2014
Bromomethane	ND	0.0075		mg/m³	1	2/24/2014
Carbon disulfide	0.024	0.0028		mg/m³	1	2/24/2014
Carbon tetrachloride	0.0034	0.00091		mg/m³	1	2/24/2014
Chlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
Chloroethane	ND	0.0013		mg/m³	1	2/24/2014
Chloroform	0.11	0.00077		mg/m³	1	2/24/2014
Chloromethane	ND	0.00036		mg/m³	1	2/24/2014
cis-1,2-Dichloroethene	0.0021	0.0015		mg/m³	1	2/24/2014
cis-1,3-Dichloropropene	ND	0.0012		mg/m³	1	2/24/2014
Cyclohexane	0.013	0.0013		mg/m³	1	2/24/2014
Dibromochloromethane	ND	0.001		mg/m³	1	2/24/2014
Dichlorodifluoromethane	0.0016	0.00062		mg/m³	1	2/24/2014
Ethyl acetate	ND	0.0014		mg/m³	1	2/24/2014

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-009

Client Sample ID: DSV1-3228 NA
Collection Date: 2/20/2014 12:50:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **2/21/2014**		Analyst: **VP**
Ethylbenzene	0.0046	0.001		mg/m³	1	2/24/2014
Freon-113	ND	0.0013		mg/m³	1	2/24/2014
Freon-114	ND	0.0022		mg/m³	1	2/24/2014
Heptane	0.034	0.01		mg/m³	1	2/24/2014
Hexachlorobutadiene	ND	0.0012		mg/m³	1	2/24/2014
Hexane	0.053	0.0031		mg/m³	1	2/24/2014
Isopropyl Alcohol	0.012	0.0026		mg/m³	1	2/24/2014
m,p-Xylene	0.0054	0.0036		mg/m³	1	2/24/2014
Methyl tert-butyl ether	ND	0.0025		mg/m³	1	2/24/2014
Methylene chloride	0.0018	0.0011	U B	mg/m³	1	2/24/2014
o-Xylene	ND	0.01		mg/m³	1	2/24/2014
Propene	ND	0.0013		mg/m³	1	2/24/2014
Styrene	ND	0.005		mg/m³	1	2/24/2014
Tetrachloroethene	0.34	0.0012		mg/m³	1	2/24/2014
Tetrahydrofuran	ND	0.002		mg/m³	1	2/24/2014
Toluene	0.018	0.0021		mg/m³	1	2/24/2014
trans-1,2-Dichloroethene	ND	0.0011		mg/m³	1	2/24/2014
trans-1,3-Dichloropropene	ND	0.0012		mg/m³	1	2/24/2014
Trichloroethene	2.1	0.04		mg/m³	25	2/23/2014
Trichlorofluoromethane	ND	0.0016		mg/m³	1	2/24/2014
Vinyl acetate	ND	0.0016		mg/m³	1	2/24/2014
Vinyl chloride	ND	0.01		mg/m³	1	2/24/2014
Xylenes, Total	0.0083	0.00019		mg/m³	1	2/24/2014

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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Accreditation Numbers:IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-010

Client Sample ID: DSV1-233SDS
Collection Date: 2/20/2014 1:20:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
1,1,1-Trichloroethane	0.01	0.0016		mg/m³	1	2/24/2014
1,1,2,2-Tetrachloroethane	ND	0.0005		mg/m³	1	2/24/2014
1,1,2-Trichloroethane	ND	0.00039		mg/m³	1	2/24/2014
1,1-Dichloroethane	ND	0.0012		mg/m³	1	2/24/2014
1,1-Dichloroethene	ND	0.0011		mg/m³	1	2/24/2014
1,2,4-Trichlorobenzene	ND	0.0021		mg/m³	1	2/24/2014
1,2,4-Trimethylbenzene	0.0072	0.0014		mg/m³	1	2/24/2014
1,2-Dibromoethane	ND	0.00056		mg/m³	1	2/24/2014
1,2-Dichlorobenzene	ND	0.0017		mg/m³	1	2/24/2014
1,2-Dichloroethane	ND	0.00029		mg/m³	1	2/24/2014
1,2-Dichloropropane	ND	0.00033		mg/m³	1	2/24/2014
1,3,5-Trimethylbenzene	0.0022	0.0014		mg/m³	1	2/24/2014
1,3-Butadiene	0.017	0.00064		mg/m³	1	2/24/2014
1,3-Dichlorobenzene	ND	0.0017		mg/m³	1	2/24/2014
1,4-Dichlorobenzene	0.00043	0.00043		mg/m³	1	2/24/2014
1,4-Dioxane	ND	0.0052		mg/m³	1	2/24/2014
2-Butanone	0.0038	0.0021		mg/m³	1	2/24/2014
2-Hexanone	ND	0.0059		mg/m³	1	2/24/2014
4-Ethyltoluene	0.0025	0.0014		mg/m³	1	2/24/2014
4-Methyl-2-pentanone	ND	0.0059		mg/m³	1	2/24/2014
Acetone	ND	0.0069	*	mg/m³	1	2/24/2014
Benzene	0.0052	0.00092		mg/m³	1	2/24/2014
Benzyl chloride	ND	0.0037		mg/m³	1	2/24/2014
Bromodichloromethane	ND	0.00048		mg/m³	1	2/24/2014
Bromoform	ND	0.0075		mg/m³	1	2/24/2014
Bromomethane	ND	0.0028		mg/m³	1	2/24/2014
Carbon disulfide	0.0056	0.0009		mg/m³	1	2/24/2014
Carbon tetrachloride	ND	0.0018		mg/m³	1	2/24/2014
Chlorobenzene	ND	0.0013		mg/m³	1	2/24/2014
Chloroethane	ND	0.00076		mg/m³	1	2/24/2014
Chloroform	0.00035	0.00035		mg/m³	1	2/24/2014
Chloromethane	ND	0.0015		mg/m³	1	2/24/2014
cis-1,2-Dichloroethene	ND	0.0011		mg/m³	1	2/24/2014
cis-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Cyclohexane	0.058	0.001		mg/m³	1	2/24/2014
Dibromochloromethane	ND	0.00062		mg/m³	1	2/24/2014
Dichlorodifluoromethane	ND	0.0014		mg/m³	1	2/24/2014
Ethyl acetate	ND	0.001		mg/m³	1	2/24/2014

Qualifiers:
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-010

Client Sample ID: DSV1-233SDS
Collection Date: 2/20/2014 1:20:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **2/21/2014**		Analyst: **VP**
Ethylbenzene	0.0055	0.0013		mg/m³	1	2/24/2014
Freon-113	ND	0.0022		mg/m³	1	2/24/2014
Freon-114	ND	0.01		mg/m³	1	2/24/2014
Heptane	0.1	0.0012		mg/m³	1	2/24/2014
Hexachlorobutadiene	ND	0.0031		mg/m³	1	2/24/2014
Hexane	0.22	0.0025		mg/m³	1	2/24/2014
Isopropyl Alcohol	0.013	0.0036		mg/m³	1	2/24/2014
m,p-Xylene	0.015	0.0025		mg/m³	1	2/24/2014
Methyl tert-butyl ether	ND	0.001		mg/m³	1	2/24/2014
Methylene chloride	0.011	0.01		mg/m³	1	2/24/2014
o-Xylene	0.0055	0.0013		mg/m³	1	2/24/2014
Propene	0.25	0.12		mg/m³	25	2/23/2014
Styrene	ND	0.0012		mg/m³	1	2/24/2014
Tetrachloroethene	0.0022	0.002		mg/m³	1	2/24/2014
Tetrahydrofuran	ND	0.0021		mg/m³	1	2/24/2014
Toluene	0.037	0.0011		mg/m³	1	2/24/2014
trans-1,2-Dichloroethene	ND	0.0011		mg/m³	1	2/24/2014
trans-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Trichloroethene	0.0036	0.0016		mg/m³	1	2/24/2014
Trichlorofluoromethane	ND	0.0016		mg/m³	1	2/24/2014
Vinyl acetate	ND	0.01		mg/m³	1	2/24/2014
Vinyl chloride	ND	0.00018		mg/m³	1	2/24/2014
Xylenes, Total	0.021	0.0038		mg/m³	1	2/24/2014

Qualifiers:
ND - Not Detected at the Reporting Limit
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-011

Client Sample ID: DSV1-305SDS
Collection Date: 2/20/2014 1:45:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
1,1,1-Trichloroethane	0.06	0.0016		mg/m³	1	2/24/2014
1,1,2,2-Tetrachloroethane	ND	0.00051		mg/m³	1	2/24/2014
1,1,2-Trichloroethane	ND	0.0004		mg/m³	1	2/24/2014
1,1-Dichloroethane	ND	0.0012		mg/m³	1	2/24/2014
1,1-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
1,2,4-Trichlorobenzene	ND	0.0022		mg/m³	1	2/24/2014
1,2,4-Trimethylbenzene	0.0061	0.0014		mg/m³	1	2/24/2014
1,2-Dibromoethane	ND	0.00057		mg/m³	1	2/24/2014
1,2-Dichlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
1,2-Dichloroethane	ND	0.0003		mg/m³	1	2/24/2014
1,2-Dichloropropane	ND	0.00034		mg/m³	1	2/24/2014
1,3,5-Trimethylbenzene	0.002	0.0014		mg/m³	1	2/24/2014
1,3-Butadiene	0.017	0.00065		mg/m³	1	2/24/2014
1,3-Dichlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
1,4-Dichlorobenzene	ND	0.00044		mg/m³	1	2/24/2014
1,4-Dioxane	ND	0.0053		mg/m³	1	2/24/2014
2-Butanone	0.0053	0.0022		mg/m³	1	2/24/2014
2-Hexanone	ND	0.006		mg/m³	1	2/24/2014
4-Ethyltoluene	0.0018	0.0014		mg/m³	1	2/24/2014
4-Methyl-2-pentanone	ND	0.006		mg/m³	1	2/24/2014
Acetone	0.031	0.007	*	mg/m³	1	2/24/2014
Benzene	0.0053	0.00094		mg/m³	1	2/24/2014
Benzyl chloride	ND	0.0038		mg/m³	1	2/24/2014
Bromodichloromethane	ND	0.00049		mg/m³	1	2/24/2014
Bromoform	ND	0.0076		mg/m³	1	2/24/2014
Bromomethane	ND	0.0029		mg/m³	1	2/24/2014
Carbon disulfide	0.0094	0.00092		mg/m³	1	2/24/2014
Carbon tetrachloride	ND	0.0019		mg/m³	1	2/24/2014
Chlorobenzene	ND	0.0014		mg/m³	1	2/24/2014
Chloroethane	ND	0.00078		mg/m³	1	2/24/2014
Chloroform	0.00072	0.00036		mg/m³	1	2/24/2014
Chloromethane	ND	0.0015		mg/m³	1	2/24/2014
cis-1,2-Dichloroethene	0.0021	0.0012		mg/m³	1	2/24/2014
cis-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Cyclohexane	0.039	0.001		mg/m³	1	2/24/2014
Dibromochloromethane	ND	0.00063		mg/m³	1	2/24/2014
Dichlorodifluoromethane	0.0016	0.0015		mg/m³	1	2/24/2014
Ethyl acetate	ND	0.0011		mg/m³	1	2/24/2014

Qualifiers:
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-011

Client Sample ID: DSV1-305SDS
Collection Date: 2/20/2014 1:45:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **2/21/2014**		Analyst: **VP**
Ethylbenzene	0.0049	0.0013		mg/m³	1	2/24/2014
Freon-113	ND	0.0023		mg/m³	1	2/24/2014
Freon-114	ND	0.01		mg/m³	1	2/24/2014
Heptane	0.015	0.0012		mg/m³	1	2/24/2014
Hexachlorobutadiene	ND	0.0031		mg/m³	1	2/24/2014
Hexane	0.082	0.0026		mg/m³	1	2/24/2014
Isopropyl Alcohol	0.034	0.0036		mg/m³	1	2/24/2014
m,p-Xylene	0.012	0.0026		mg/m³	1	2/24/2014
Methyl tert-butyl ether	ND	0.0011		mg/m³	1	2/24/2014
Methylene chloride	ND	0.01		mg/m³	1	2/24/2014
o-Xylene	0.0042	0.0013		mg/m³	1	2/24/2014
Propene	0.35	0.13		mg/m³	25	2/23/2014
Styrene	ND	0.0013		mg/m³	1	2/24/2014
Tetrachloroethene	0.022	0.002		mg/m³	1	2/24/2014
Tetrahydrofuran	ND	0.0022		mg/m³	1	2/24/2014
Toluene	0.05	0.0011		mg/m³	1	2/24/2014
trans-1,2-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
trans-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Trichloroethene	0.052	0.0016		mg/m³	1	2/24/2014
Trichlorofluoromethane	ND	0.0017		mg/m³	1	2/24/2014
Vinyl acetate	ND	0.01		mg/m³	1	2/24/2014
Vinyl chloride	ND	0.00019		mg/m³	1	2/24/2014
Xylenes, Total	0.017	0.0038		mg/m³	1	2/24/2014

Qualifiers:
ND - Not Detected at the Reporting Limit
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-012

Client Sample ID: DSV1-359SDS
Collection Date: 2/20/2014 2:15:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
1,1,1-Trichloroethane	ND	0.0016		mg/m³	1	2/24/2014
1,1,2,2-Tetrachloroethane	ND	0.0005		mg/m³	1	2/24/2014
1,1,2-Trichloroethane	ND	0.0004		mg/m³	1	2/24/2014
1,1-Dichloroethane	ND	0.0012		mg/m³	1	2/24/2014
1,1-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
1,2,4-Trichlorobenzene	ND	0.0022		mg/m³	1	2/24/2014
1,2,4-Trimethylbenzene	0.0027	0.0014		mg/m³	1	2/24/2014
1,2-Dibromoethane	ND	0.00056		mg/m³	1	2/24/2014
1,2-Dichlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
1,2-Dichloroethane	ND	0.0003		mg/m³	1	2/24/2014
1,2-Dichloropropane	0.0026	0.00034		mg/m³	1	2/24/2014
1,3,5-Trimethylbenzene	ND	0.0014		mg/m³	1	2/24/2014
1,3-Butadiene	0.0035	0.00065		mg/m³	1	2/24/2014
1,3-Dichlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
1,4-Dichlorobenzene	ND	0.00044		mg/m³	1	2/24/2014
1,4-Dioxane	ND	0.0053		mg/m³	1	2/24/2014
2-Butanone	0.0041	0.0022		mg/m³	1	2/24/2014
2-Hexanone	ND	0.006		mg/m³	1	2/24/2014
4-Ethyltoluene	ND	0.0014		mg/m³	1	2/24/2014
4-Methyl-2-pentanone	ND	0.006		mg/m³	1	2/24/2014
Acetone	ND	0.0069	*	mg/m³	1	2/24/2014
Benzene	0.0032	0.00093		mg/m³	1	2/24/2014
Benzyl chloride	ND	0.0038		mg/m³	1	2/24/2014
Bromodichloromethane	ND	0.00049		mg/m³	1	2/24/2014
Bromoform	ND	0.0075		mg/m³	1	2/24/2014
Bromomethane	ND	0.0028		mg/m³	1	2/24/2014
Carbon disulfide	0.0052	0.00091		mg/m³	1	2/24/2014
Carbon tetrachloride	ND	0.0018		mg/m³	1	2/24/2014
Chlorobenzene	ND	0.0013		mg/m³	1	2/24/2014
Chloroethane	0.00089	0.00077		mg/m³	1	2/24/2014
Chloroform	ND	0.00036		mg/m³	1	2/24/2014
Chloromethane	ND	0.0015		mg/m³	1	2/24/2014
cis-1,2-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
cis-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Cyclohexane	0.026	0.001		mg/m³	1	2/24/2014
Dibromochloromethane	ND	0.00062		mg/m³	1	2/24/2014
Dichlorodifluoromethane	ND	0.0014		mg/m³	1	2/24/2014
Ethyl acetate	ND	0.0011		mg/m³	1	2/24/2014

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
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Date Reported: March 19, 2014
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ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-012

Client Sample ID: DSV1-359SDS
Collection Date: 2/20/2014 2:15:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **2/21/2014**		Analyst: **VP**
Ethylbenzene	0.0032	0.0013		mg/m³	1	2/24/2014
Freon-113	ND	0.0022		mg/m³	1	2/24/2014
Freon-114	ND	0.01		mg/m³	1	2/24/2014
Heptane	0.07	0.0012		mg/m³	1	2/24/2014
Hexachlorobutadiene	ND	0.0031		mg/m³	1	2/24/2014
Hexane	0.043	0.0026		mg/m³	1	2/24/2014
Isopropyl Alcohol	0.034	0.0036		mg/m³	1	2/24/2014
m,p-Xylene	0.0082	0.0025		mg/m³	1	2/24/2014
Methyl tert-butyl ether	ND	0.0011		mg/m³	1	2/24/2014
Methylene chloride	ND	0.01		mg/m³	1	2/24/2014
o-Xylene	0.0023	0.0013		mg/m³	1	2/24/2014
Propene	0.041	0.005		mg/m³	1	2/24/2014
Styrene	ND	0.0012		mg/m³	1	2/24/2014
Tetrachloroethene	0.0023	0.002		mg/m³	1	2/24/2014
Tetrahydrofuran	ND	0.0022		mg/m³	1	2/24/2014
Toluene	0.097	0.0011		mg/m³	1	2/24/2014
trans-1,2-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
trans-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Trichloroethene	ND	0.0016		mg/m³	1	2/24/2014
Trichlorofluoromethane	ND	0.0016		mg/m³	1	2/24/2014
Vinyl acetate	ND	0.01		mg/m³	1	2/24/2014
Vinyl chloride	ND	0.00019		mg/m³	1	2/24/2014
Xylenes, Total	0.011	0.0038		mg/m³	1	2/24/2014

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers:IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-013

Client Sample ID: DSV1-252SGS
Collection Date: 2/20/2014 2:45:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
1,1,1-Trichloroethane	ND	0.0016		mg/m³	1	2/24/2014
1,1,2,2-Tetrachloroethane	ND	0.00051		mg/m³	1	2/24/2014
1,1,2-Trichloroethane	ND	0.0004		mg/m³	1	2/24/2014
1,1-Dichloroethane	ND	0.0012		mg/m³	1	2/24/2014
1,1-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
1,2,4-Trichlorobenzene	ND	0.0022		mg/m³	1	2/24/2014
1,2,4-Trimethylbenzene	0.0056	0.0015		mg/m³	1	2/24/2014
1,2-Dibromoethane	ND	0.00057		mg/m³	1	2/24/2014
1,2-Dichlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
1,2-Dichloroethane	ND	0.0003		mg/m³	1	2/24/2014
1,2-Dichloropropane	0.00041	0.00034		mg/m³	1	2/24/2014
1,3,5-Trimethylbenzene	0.0018	0.0015		mg/m³	1	2/24/2014
1,3-Butadiene	0.0049	0.00065		mg/m³	1	2/24/2014
1,3-Dichlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
1,4-Dichlorobenzene	ND	0.00044		mg/m³	1	2/24/2014
1,4-Dioxane	ND	0.0053		mg/m³	1	2/24/2014
2-Butanone	0.0098	0.0022		mg/m³	1	2/24/2014
2-Hexanone	ND	0.0061		mg/m³	1	2/24/2014
4-Ethyltoluene	0.0017	0.0015		mg/m³	1	2/24/2014
4-Methyl-2-pentanone	ND	0.0061		mg/m³	1	2/24/2014
Acetone	0.11	0.007	*	mg/m³	1	2/24/2014
Benzene	0.0029	0.00095		mg/m³	1	2/24/2014
Benzyl chloride	ND	0.0038		mg/m³	1	2/24/2014
Bromodichloromethane	ND	0.0005		mg/m³	1	2/24/2014
Bromoform	ND	0.0077		mg/m³	1	2/24/2014
Bromomethane	ND	0.0029		mg/m³	1	2/24/2014
Carbon disulfide	0.074	0.00092		mg/m³	1	2/24/2014
Carbon tetrachloride	ND	0.0019		mg/m³	1	2/24/2014
Chlorobenzene	ND	0.0014		mg/m³	1	2/24/2014
Chloroethane	ND	0.00078		mg/m³	1	2/24/2014
Chloroform	0.0016	0.00036		mg/m³	1	2/24/2014
Chloromethane	ND	0.0015		mg/m³	1	2/24/2014
cis-1,2-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
cis-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Cyclohexane	0.0039	0.001		mg/m³	1	2/24/2014
Dibromochloromethane	ND	0.00063		mg/m³	1	2/24/2014
Dichlorodifluoromethane	0.0015	0.0015		mg/m³	1	2/24/2014
Ethyl acetate	ND	0.0011		mg/m³	1	2/24/2014

Qualifiers:
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-013

Client Sample ID: DSV1-252SGS
Collection Date: 2/20/2014 2:45:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **2/21/2014**		Analyst: **VP**
Ethylbenzene	0.0057	0.0013		mg/m³	1	2/24/2014
Freon-113	ND	0.0023		mg/m³	1	2/24/2014
Freon-114	ND	0.01		mg/m³	1	2/24/2014
Heptane	0.0076	0.0012		mg/m³	1	2/24/2014
Hexachlorobutadiene	ND	0.0032		mg/m³	1	2/24/2014
Hexane	0.0094	0.0026		mg/m³	1	2/24/2014
Isopropyl Alcohol	0.21	0.093		mg/m³	25	2/23/2014
m,p-Xylene	0.015	0.0026		mg/m³	1	2/24/2014
Methyl tert-butyl ether	ND	0.0011		mg/m³	1	2/24/2014
Methylene chloride	ND	0.01		mg/m³	1	2/24/2014
o-Xylene	0.005	0.0013		mg/m³	1	2/24/2014
Propene	0.042	0.0051		mg/m³	1	2/24/2014
Styrene	0.0015	0.0013		mg/m³	1	2/24/2014
Tetrachloroethene	0.0037	0.002		mg/m³	1	2/24/2014
Tetrahydrofuran	ND	0.0022		mg/m³	1	2/24/2014
Toluene	0.076	0.0011		mg/m³	1	2/24/2014
trans-1,2-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
trans-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Trichloroethene	0.0024	0.0016		mg/m³	1	2/24/2014
Trichlorofluoromethane	ND	0.0017		mg/m³	1	2/24/2014
Vinyl acetate	ND	0.01		mg/m³	1	2/24/2014
Vinyl chloride	ND	0.00019		mg/m³	1	2/24/2014
Xylenes, Total	0.02	0.0039		mg/m³	1	2/24/2014

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-014

Client Sample ID: DSV1-3106NA
Collection Date: 2/20/2014 3:15:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
1,1,1-Trichloroethane	ND	0.0016		mg/m³	1	2/24/2014
1,1,2,2-Tetrachloroethane	ND	0.00051		mg/m³	1	2/24/2014
1,1,2-Trichloroethane	ND	0.0004		mg/m³	1	2/24/2014
1,1-Dichloroethane	ND	0.0012		mg/m³	1	2/24/2014
1,1-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
1,2,4-Trichlorobenzene	ND	0.0022		mg/m³	1	2/24/2014
1,2,4-Trimethylbenzene	0.018	0.0015		mg/m³	1	2/24/2014
1,2-Dibromoethane	ND	0.00057		mg/m³	1	2/24/2014
1,2-Dichlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
1,2-Dichloroethane	ND	0.0003		mg/m³	1	2/24/2014
1,2-Dichloropropane	ND	0.00034		mg/m³	1	2/24/2014
1,3,5-Trimethylbenzene	0.0036	0.0015		mg/m³	1	2/24/2014
1,3-Butadiene	0.002	0.00066		mg/m³	1	2/24/2014
1,3-Dichlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
1,4-Dichlorobenzene	ND	0.00045		mg/m³	1	2/24/2014
1,4-Dioxane	ND	0.0053		mg/m³	1	2/24/2014
2-Butanone	0.0069	0.0022		mg/m³	1	2/24/2014
2-Hexanone	ND	0.0061		mg/m³	1	2/24/2014
4-Ethyltoluene	0.0049	0.0015		mg/m³	1	2/24/2014
4-Methyl-2-pentanone	ND	0.0061		mg/m³	1	2/24/2014
Acetone	0.095	0.0071	*	mg/m³	1	2/24/2014
Benzene	0.062	0.00095		mg/m³	1	2/24/2014
Benzyl chloride	ND	0.0038		mg/m³	1	2/24/2014
Bromodichloromethane	ND	0.0005		mg/m³	1	2/24/2014
Bromoform	ND	0.0077		mg/m³	1	2/24/2014
Bromomethane	ND	0.0029		mg/m³	1	2/24/2014
Carbon disulfide	0.013	0.00092		mg/m³	1	2/24/2014
Carbon tetrachloride	ND	0.0019		mg/m³	1	2/24/2014
Chlorobenzene	ND	0.0014		mg/m³	1	2/24/2014
Chloroethane	ND	0.00078		mg/m³	1	2/24/2014
Chloroform	ND	0.00036		mg/m³	1	2/24/2014
Chloromethane	ND	0.0015		mg/m³	1	2/24/2014
cis-1,2-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
cis-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Cyclohexane	0.15	0.001		mg/m³	1	2/24/2014
Dibromochloromethane	ND	0.00063		mg/m³	1	2/24/2014
Dichlorodifluoromethane	ND	0.0015		mg/m³	1	2/24/2014
Ethyl acetate	ND	0.0011		mg/m³	1	2/24/2014

Qualifiers:
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-014

Client Sample ID: DSV1-3106NA
Collection Date: 2/20/2014 3:15:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
Ethylbenzene	0.042	0.0013		mg/m³	1	2/24/2014
Freon-113	ND	0.0023		mg/m³	1	2/24/2014
Freon-114	ND	0.01		mg/m³	1	2/24/2014
Heptane	0.27	0.0012		mg/m³	1	2/24/2014
Hexachlorobutadiene	ND	0.0032		mg/m³	1	2/24/2014
Hexane	0.51	0.067		mg/m³	25	2/23/2014
Isopropyl Alcohol	0.071	0.0036		mg/m³	1	2/24/2014
m,p-Xylene	0.061	0.0026		mg/m³	1	2/24/2014
Methyl tert-butyl ether	ND	0.0011		mg/m³	1	2/24/2014
Methylene chloride	ND	0.01		mg/m³	1	2/24/2014
o-Xylene	0.023	0.0013		mg/m³	1	2/24/2014
Propene	0.013	0.0051		mg/m³	1	2/24/2014
Styrene	ND	0.0013		mg/m³	1	2/24/2014
Tetrachloroethene	ND	0.002		mg/m³	1	2/24/2014
Tetrahydrofuran	ND	0.0022		mg/m³	1	2/24/2014
Toluene	0.13	0.0011		mg/m³	1	2/24/2014
trans-1,2-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
trans-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Trichloroethene	0.0072	0.0016		mg/m³	1	2/24/2014
Trichlorofluoromethane	ND	0.0017		mg/m³	1	2/24/2014
Vinyl acetate	ND	0.01		mg/m³	1	2/24/2014
Vinyl chloride	ND	0.00019		mg/m³	1	2/24/2014
Xylenes, Total	0.083	0.0039		mg/m³	1	2/24/2014

Qualifiers:
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-015

Client Sample ID: DSV1-AA
Collection Date: 2/20/2014 12:50:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **2/21/2014**		Analyst: **VP**
1,1,1-Trichloroethane	ND	0.0016		mg/m³	1	2/24/2014
1,1,2,2-Tetrachloroethane	ND	0.0005		mg/m³	1	2/24/2014
1,1,2-Trichloroethane	ND	0.0004		mg/m³	1	2/24/2014
1,1-Dichloroethane	ND	0.0012		mg/m³	1	2/24/2014
1,1-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
1,2,4-Trichlorobenzene	ND	0.0022		mg/m³	1	2/24/2014
1,2,4-Trimethylbenzene	0.0038	0.0014		mg/m³	1	2/24/2014
1,2-Dibromoethane	ND	0.00056		mg/m³	1	2/24/2014
1,2-Dichlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
1,2-Dichloroethane	ND	0.0003		mg/m³	1	2/24/2014
1,2-Dichloropropane	0.0033	0.00034		mg/m³	1	2/24/2014
1,3,5-Trimethylbenzene	ND	0.0014		mg/m³	1	2/24/2014
1,3-Butadiene	0.0064	0.00065		mg/m³	1	2/24/2014
1,3-Dichlorobenzene	ND	0.0018		mg/m³	1	2/24/2014
1,4-Dichlorobenzene	ND	0.00044		mg/m³	1	2/24/2014
1,4-Dioxane	ND	0.0053		mg/m³	1	2/24/2014
2-Butanone	ND	0.0022		mg/m³	1	2/24/2014
2-Hexanone	ND	0.006		mg/m³	1	2/24/2014
4-Ethyltoluene	0.0014	0.0014		mg/m³	1	2/24/2014
4-Methyl-2-pentanone	0.0066	0.006		mg/m³	1	2/24/2014
Acetone	ND	0.007	*	mg/m³	1	2/24/2014
Benzene	0.0036	0.00094		mg/m³	1	2/24/2014
Benzyl chloride	ND	0.0038		mg/m³	1	2/24/2014
Bromodichloromethane	ND	0.00049		mg/m³	1	2/24/2014
Bromoform	ND	0.0076		mg/m³	1	2/24/2014
Bromomethane	ND	0.0029		mg/m³	1	2/24/2014
Carbon disulfide	0.0064	0.00091		mg/m³	1	2/24/2014
Carbon tetrachloride	ND	0.0018		mg/m³	1	2/24/2014
Chlorobenzene	ND	0.0014		mg/m³	1	2/24/2014
Chloroethane	0.00085	0.00078		mg/m³	1	2/24/2014
Chloroform	ND	0.00036		mg/m³	1	2/24/2014
Chloromethane	ND	0.0015		mg/m³	1	2/24/2014
cis-1,2-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
cis-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Cyclohexane	0.029	0.001		mg/m³	1	2/24/2014
Dibromochloromethane	ND	0.00063		mg/m³	1	2/24/2014
Dichlorodifluoromethane	0.0016	0.0015		mg/m³	1	2/24/2014
Ethyl acetate	ND	0.0011		mg/m³	1	2/24/2014

Qualifiers:
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Date Reported: March 19, 2014
Date Printed: March 19, 2014

ANALYTICAL RESULTS

Client: Oneida Total Integrated Enterprises (OTIE)
Lab Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site
Lab ID: 14020436-015

Client Sample ID: DSV1-AA
Collection Date: 2/20/2014 12:50:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **2/21/2014**		Analyst: **VP**
Ethylbenzene	0.0036	0.0013		mg/m³	1	2/24/2014
Freon-113	ND	0.0023		mg/m³	1	2/24/2014
Freon-114	ND	0.01		mg/m³	1	2/24/2014
Heptane	0.07	0.0012		mg/m³	1	2/24/2014
Hexachlorobutadiene	ND	0.0031		mg/m³	1	2/24/2014
Hexane	0.039	0.0026		mg/m³	1	2/24/2014
Isopropyl Alcohol	0.011	0.0036		mg/m³	1	2/24/2014
m,p-Xylene	0.01	0.0026		mg/m³	1	2/24/2014
Methyl tert-butyl ether	ND	0.0011		mg/m³	1	2/24/2014
Methylene chloride	ND	0.01		mg/m³	1	2/24/2014
o-Xylene	0.0031	0.0013		mg/m³	1	2/24/2014
Propene	0.097	0.0051		mg/m³	1	2/24/2014
Styrene	ND	0.0013		mg/m³	1	2/24/2014
Tetrachloroethene	0.003	0.002		mg/m³	1	2/24/2014
Tetrahydrofuran	ND	0.0022		mg/m³	1	2/24/2014
Toluene	0.095	0.0011		mg/m³	1	2/24/2014
trans-1,2-Dichloroethene	ND	0.0012		mg/m³	1	2/24/2014
trans-1,3-Dichloropropene	ND	0.0013		mg/m³	1	2/24/2014
Trichloroethene	ND	0.0016		mg/m³	1	2/24/2014
Trichlorofluoromethane	ND	0.0017		mg/m³	1	2/24/2014
Vinyl acetate	ND	0.01		mg/m³	1	2/24/2014
Vinyl chloride	ND	0.00019		mg/m³	1	2/24/2014
Xylenes, Total	0.013	0.0038		mg/m³	1	2/24/2014

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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R - RPD outside accepted recovery limits
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e-mail address: STATinfo@STATAnalysis.com AIHA, NVLAP and NELAP accredited

CHAIN OF CUSTODY RECORD

Nº: 854571 Page : 1 of 1

Company: OTIE
Project Number: 2010101-10 4e Client Tracking No.:
Project Name: Dearborn Street VI Site
Project Location: Indianapolis, IN
Sampler(s): Christopher Redfearn
Report To: credfearn@otie.com Phone: (312) 533-0016
Fax: (312) 320-7004
QC Level: 1 2 3 4
e-mail: credfearn@otie.com

P.O. No.:
Quote No.:

Turn Around: STD
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	TO-15	Remarks	Lab No.:
DSVI-715TS	2/20/14	0830	Air		X		1	X		001
DSVI-695LS	2/20/14	0900	Air		X		1	X		002
DSVI-675DS	2/20/14	0930	Air		X		1	X		003
DSVI-435GS	2/20/14	0945	Air		X		1	X		004
DSVI-175GS	2/20/14	1025	Air		X		1	X		005
DSVI-441SLS	2/20/14	1130	Air		X		1	X		006
DSVI-301SLS	2/20/14	1200	Air		X		1	X		007
DSVI-249 SLS	2/20/14	1230	Air		X		1	X		008
DSVI-~~325~~ CD 322SNA	2/20/14	1250	Air		X		1	X		009
DSVI-233SDS	2/20/14	1520	Air		X		1	X		010
DSVI-305SDS	2/20/14	1345	Air		X		1	X		011
DSVI-359SDS	2/20/14	1415	Air		X		1	X		012
DSVI-252SGS	2/20/14	1445	Air		X		1	X		013
DSVI-310SNA	2/20/14	1515	Air		X		1	X		014
DSVI-AA	2/20/14	1250	Air		X		1	X		015

Relinquished by: (Signature)	Date/Time: 2/21/14 1130	
Received by: (Signature)	Date/Time: 2/21/14 11:30	
Relinquished by: (Signature)	Date/Time:	
Received by: (Signature)	Date/Time:	
Relinquished by: (Signature)	Date/Time:	
Received by: (Signature)	Date/Time:	

Comments:

Laboratory Work Order No.: 1402043G

Received on Ice: Yes ☐ No ☒

Temperature: AMB. °C

Preservation Code: A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore G = Other

STAT Analysis Corporation

Sample Receipt Checklist

Client Name OTIE | Date and Time Received: 2/21/2014 11:30:00 AM

Work Order Number 14020436 | Received by: DJ

Checklist completed by: Signature 2/21/14 Date | Reviewed by: Initials CR 2/24/14 Date

Matrix: | Carrier name: Client Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels/containers?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples pH checked?	Yes ☐	No ☐	Checked by:
Water - Samples properly preserved?	Yes ☐	No ☐	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments: Sample container for DSV-1 441 SLS was received unlabeled. Canister # 1725 is Sample DSV-1 441 SLS per Chris Redfearn verbal.

Client / Person contacted: Chris Redfearn Date contacted: 2/21/14 Contacted by: frank Caracciolo.

Response:

Analytical Run Summary

Run ID: *VOA-6_140222A (R96723)*

Analyst: VP

Printed: *19-Mar-14*

SeqNo	Sample ID	Type	Test Code	Batch	DF	File ID	Date/Time Analyzed
2614049	CCV022214-6 2.0	CCV	TO_15A+	R96723	1	02221401.D	02/22/2014 15:54
2614048	BFB022214-6	TUNE	BFB	R96723	1	02221401.D	02/22/2014 15:54
2614121	MB022214-6	MBLK	TO_15MG+	R96723	1	02221402.D	02/22/2014 16:57
2614122	LCS022214-6 5.0	LCS	TO_15MG+	R96723	1	02221403.D	02/22/2014 17:34
2614123	LCSD022214-6 5.0	LCSD	TO_15MG+	R96723	1	02221404.D	02/22/2014 18:10
2614828	14020436-003A	SAMP	TO_15MG	74790	25	02221407.D	02/22/2014 20:44
2614829	14020436-004A	SAMP	TO_15MG	74790	25	02221408.D	02/22/2014 21:21
2614831	14020436-008A	SAMP	TO_15MG	74790	25	02221412.D	02/22/2014 23:46
2614832	14020436-009A	SAMP	TO_15MG	74790	25	02221413.D	02/23/2014 0:22
2614833	14020436-010A	SAMP	TO_15MG	74790	25	02221414.D	02/23/2014 0:59
2614834	14020436-011A	SAMP	TO_15MG	74790	25	02221415.D	02/23/2014 1:35
2614835	14020436-013A	SAMP	TO_15MG	74790	25	02221417.D	02/23/2014 2:48
2614836	14020436-014A	SAMP	TO_15MG	74790	25	02221418.D	02/23/2014 3:24

CLIENT: Oneida Total Integrated Enterprises (OTIE)
Work Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R96723

Sample ID: **MB022214-6**	SampType: **MBLK**	TestCode: **TO_15MG+**	Units: **mg/m³**	Prep Date:		Run ID: **VOA-6_140222A**	
Client ID: **ZZZZZ**	Batch ID: **R96723**	TestNo: **TO-15**		Analysis Date: **2/22/2014**		SeqNo: **2614121**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.0011									
1,1,2,2-Tetrachloroethane	ND	0.0014									
1,1,2-Trichloroethane	ND	0.0011									
1,1-Dichloroethane	ND	0.00080									
1,1-Dichloroethene	ND	0.00080									
1,2,4-Trichlorobenzene	ND	0.0015									
1,2,4-Trimethylbenzene	ND	0.0010									
1,2-Dibromoethane	ND	0.0015									
1,2-Dichlorobenzene	ND	0.0012									
1,2-Dichloroethane	ND	0.00080									
1,2-Dichloropropane	ND	0.00090									
1,3,5-Trimethylbenzene	ND	0.0010									
1,3-Butadiene	ND	0.00040									
1,3-Dichlorobenzene	ND	0.0012									
1,4-Dichlorobenzene	ND	0.0012									
1,4-Dioxane	ND	0.0018									
2-Butanone	ND	0.0015									
2-Hexanone	ND	0.0041									
4-Ethyltoluene	ND	0.0010									
4-Methyl-2-pentanone	ND	0.0041									
Acetone	ND	0.0048									*
Benzene	ND	0.00060									
Benzyl chloride	ND	0.0026									
Bromodichloromethane	ND	0.0013									
Bromoform	ND	0.0052									
Bromomethane	0.0001553	0.0019									J
Carbon disulfide	ND	0.00062									
Carbon tetrachloride	ND	0.0013									
Chlorobenzene	ND	0.00090									
Chloroethane	ND	0.00050									

not above CRQL

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Oneida Total Integrated Enterprises (OTIE)
Work Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R96723

Sample ID: MB022214-6	SampType: MBLK	TestCode: TO_15MG+	Units: mg/m³	Prep Date:	Run ID: VOA-6_140222A
Client ID: ZZZZZ	Batch ID: R96723	TestNo: TO-15		Analysis Date: 2/22/2014	SeqNo: 2614121

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	0.0010									
Chloromethane	ND	0.0010									
cis-1,2-Dichloroethene	ND	0.00080									
cis-1,3-Dichloropropene	ND	0.00090									
Cyclohexane	ND	0.00070									
Dibromochloromethane	ND	0.0017									
Dichlorodifluoromethane	ND	0.0010									
Ethyl acetate	ND	0.00070									
Ethylbenzene	ND	0.00090									
Freon-113	ND	0.0015									
Freon-114	ND	0.0070									
Heptane	ND	0.00080									
Hexachlorobutadiene	ND	0.0021									
Hexane	ND	0.0018									
Isopropyl Alcohol	ND	0.0025									
m,p-Xylene	ND	0.0017									
Methyl tert-butyl ether	ND	0.00070									
Methylene chloride	ND	0.0069									
o-Xylene	ND	0.00090									
Propene	0.0001205	0.0034									J
Styrene	ND	0.00090									
Tetrachloroethene	ND	0.0014									
Tetrahydrofuran	ND	0.0015									
Toluene	ND	0.00080									
trans-1,2-Dichloroethene	ND	0.00080									
trans-1,3-Dichloropropene	ND	0.00090									
Trichloroethene	ND	0.0011									
Trichlorofluoromethane	ND	0.0011									
Vinyl acetate	ND	0.0070									
Vinyl chloride	ND	0.00050									
Xylenes, Total	ND	0.0026									

not above CRQL

Qualifiers:
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H/HT - Holding Time Exceeded
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E - Value above quantitation range

CLIENT: Oneida Total Integrated Enterprises (OTIE)
Work Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R96723

Sample ID: **LCS022214-6 5.0** SampType: **LCS** TestCode: **TO_15MG+** Units: **mg/m³** Prep Date: Run ID: **VOA-6_140222A**
Client ID: ZZZZZ Batch ID: **R96723** TestNo: **TO-15** Analysis Date: **2/22/2014** SeqNo: **2614122**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.02477	0.0011	0.02728	0	90.8	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.03612	0.0014	0.03434	0	105	70	130	0	0		
1,1,2-Trichloroethane	0.0269	0.0011	0.02728	0	98.6	70	130	0	0		
1,1-Dichloroethane	0.01866	0.00080	0.02024	0	92.2	70	130	0	0		
1,1-Dichloroethene	0.01844	0.00080	0.01982	0	93	70	130	0	0		
1,2,4-Trichlorobenzene	0.04401	0.0015	0.03711	0	119	70	130	0	0		
1,2,4-Trimethylbenzene	0.02713	0.0010	0.02458	0	110	70	130	0	0		
1,2-Dibromoethane	0.03926	0.0015	0.03842	0	102	70	130	0	0		
1,2-Dichlorobenzene	0.03108	0.0012	0.03006	0	103	70	130	0	0		
1,2-Dichloroethane	0.01825	0.00080	0.02024	0	90.2	70	130	0	0		
1,2-Dichloropropane	0.02297	0.00090	0.02311	0	99.4	70	130	0	0		
1,3,5-Trimethylbenzene	0.02625	0.0010	0.02458	0	107	70	130	0	0		
1,3-Butadiene	0.00938	0.00040	0.01106	0	84.8	70	130	0	0		
1,3-Dichlorobenzene	0.03168	0.0012	0.03006	0	105	70	130	0	0		
1,4-Dichlorobenzene	0.03078	0.0012	0.03006	0	102	70	130	0	0		
1,4-Dioxane	0.01914	0.0018	0.01802	0	106	70	130	0	0		
2-Butanone	0.01504	0.0015	0.01475	0	102	70	130	0	0		
2-Hexanone	0.02392	0.0041	0.02048	0	117	70	130	0	0		
4-Ethyltoluene	0.02694	0.0010	0.02458	0	110	70	130	0	0		
4-Methyl-2-pentanone	0.01925	0.0041	0.02048	0	94	70	130	0	0		
Acetone	0.01062	0.0048	0.01188	0	89.4	70	130	0	0		*
Benzene	0.01428	0.00060	0.01597	0	89.4	70	130	0	0		
Benzyl chloride	0.03065	0.0026	0.02589	0	118	70	130	0	0		
Bromodichloromethane	0.03303	0.0013	0.0335	0	98.6	70	130	0	0		
Bromoform	0.06119	0.0052	0.05168	0	118	70	130	0	0		
Bromomethane	0.01996	0.0019	0.01942	0.0001553	102	70	130	0	0		
Carbon disulfide	0.01551	0.00062	0.01557	0	99.6	70	130	0	0		
Carbon tetrachloride	0.02925	0.0013	0.03146	0	93	70	130	0	0		
Chlorobenzene	0.02191	0.00090	0.02302	0	95.2	70	130	0	0		
Chloroethane	0.01214	0.00050	0.01319	0	92	70	130	0	0		
Chloroform	0.02222	0.0010	0.02441	0	91	70	130	0	0		

Qualifiers:
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J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Oneida Total Integrated Enterprises (OTIE)
Work Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R96723

Sample ID: **LCS022214-6 5.0** SampType: **LCS** TestCode: **TO_15MG+** Units: **mg/m³** Prep Date: Run ID: **VOA-6_140222A**
Client ID: **ZZZZZ** Batch ID: **R96723** TestNo: **TO-15** Analysis Date: **2/22/2014** SeqNo: **2614122**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	0.009912	0.0010	0.01033	0	96	70	130	0	0		
cis-1,2-Dichloroethene	0.01915	0.00080	0.01982	0	96.6	70	130	0	0		
cis-1,3-Dichloropropene	0.0241	0.00090	0.02269	0	106	70	130	0	0		
Cyclohexane	0.01683	0.00070	0.01721	0	97.8	70	130	0	0		
Dibromochloromethane	0.04532	0.0017	0.04259	0	106	70	130	0	0		
Dichlorodifluoromethane	0.02166	0.0010	0.02473	0	87.6	70	130	0	0		
Ethyl acetate	0.01622	0.00070	0.01802	0	90	70	130	0	0		
Ethylbenzene	0.02206	0.00090	0.02171	0	102	70	130	0	0		
Freon-113	0.03479	0.0015	0.03832	0	90.8	70	130	0	0		
Freon-114	0.02852	0.0070	0.03495	0	81.6	70	130	0	0		
Heptane	0.02016	0.00080	0.02049	0	98.4	70	130	0	0		
Hexachlorobutadiene	0.05898	0.0021	0.05333	0	111	70	130	0	0		
Hexane	0.02027	0.0018	0.01762	0	115	70	130	0	0		
Isopropyl Alcohol	0.01207	0.0025	0.01229	0	98.2	70	130	0	0		
m,p-Xylene	0.04459	0.0017	0.04342	0	103	70	130	0	0		
Methyl tert-butyl ether	0.0177	0.00070	0.01803	0	98.2	70	130	0	0		
Methylene chloride	0.01591	0.0069	0.01737	0	91.6	70	130	0	0		
o-Xylene	0.02223	0.00090	0.02171	0	102	70	130	0	0		
Propene	0.007469	0.0034	0.008605	0.0001205	85.4	70	130	0	0		
Styrene	0.02458	0.00090	0.0213	0	115	70	130	0	0		
Tetrachloroethene	0.03283	0.0014	0.03391	0	96.8	70	130	0	0		
Tetrahydrofuran	0.01374	0.0015	0.01475	0	93.2	70	130	0	0		
Toluene	0.01843	0.00080	0.01884	0	97.8	70	130	0	0		
trans-1,2-Dichloroethene	0.01947	0.00080	0.01982	0	98.2	70	130	0	0		
trans-1,3-Dichloropropene	0.02183	0.00090	0.02269	0	96.2	70	130	0	0		
Trichloroethene	0.02596	0.0011	0.02687	0	96.6	70	130	0	0		
Trichlorofluoromethane	0.02416	0.0011	0.02809	0	86	70	130	0	0		
Vinyl acetate	0.01877	0.0070	0.01761	0	107	70	130	0	0		
Vinyl chloride	0.01115	0.00050	0.01278	0	87.2	70	130	0	0		
Xylenes, Total	0.06687	0.0026	0.06513	0	103	70	130	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Oneida Total Integrated Enterprises (OTIE)
Work Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R96723

Sample ID: **LCSD022214-6 5.0** SampType: **LCSD** TestCode: **TO_15MG+** Units: **mg/m³** Prep Date: Run ID: **VOA-6_140222A**
Client ID: **ZZZZZ** Batch ID: **R96723** TestNo: **TO-15** Analysis Date: **2/22/2014** SeqNo: **2614123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.02455	0.0011	0.02728	0	90	70	130	0.02477	0.885	25	
1,1,2,2-Tetrachloroethane	0.0355	0.0014	0.03434	0	103	70	130	0.03612	1.73	25	
1,1,2-Trichloroethane	0.0275	0.0011	0.02728	0	101	70	130	0.0269	2.21	25	
1,1-Dichloroethane	0.01838	0.00080	0.02024	0	90.8	70	130	0.01866	1.53	25	
1,1-Dichloroethene	0.01808	0.00080	0.01982	0	91.2	70	130	0.01844	1.95	25	
1,2,4-Trichlorobenzene	0.04238	0.0015	0.03711	0	114	70	130	0.04401	3.78	25	
1,2,4-Trimethylbenzene	0.02655	0.0010	0.02458	0	108	70	130	0.02713	2.20	25	
1,2-Dibromoethane	0.03888	0.0015	0.03842	0	101	70	130	0.03926	0.983	25	
1,2-Dichlorobenzene	0.0306	0.0012	0.03006	0	102	70	130	0.03108	1.56	25	
1,2-Dichloroethane	0.01821	0.00080	0.02024	0	90	70	130	0.01825	0.222	25	
1,2-Dichloropropane	0.02264	0.00090	0.02311	0	98	70	130	0.02297	1.42	25	
1,3,5-Trimethylbenzene	0.02571	0.0010	0.02458	0	105	70	130	0.02625	2.08	25	
1,3-Butadiene	0.008584	0.00040	0.01106	0	77.6	70	130	0.00938	8.87	25	
1,3-Dichlorobenzene	0.03108	0.0012	0.03006	0	103	70	130	0.03168	1.92	25	
1,4-Dichlorobenzene	0.0303	0.0012	0.03006	0	101	70	130	0.03078	1.57	25	
1,4-Dioxane	0.01849	0.0018	0.01802	0	103	70	130	0.01914	3.45	25	
2-Butanone	0.01498	0.0015	0.01475	0	102	70	130	0.01504	0.393	25	
2-Hexanone	0.0238	0.0041	0.02048	0	116	70	130	0.02392	0.515	25	
4-Ethyltoluene	0.02655	0.0010	0.02458	0	108	70	130	0.02694	1.47	25	
4-Methyl-2-pentanone	0.01929	0.0041	0.02048	0	94.2	70	130	0.01925	0.213	25	
Acetone	0.0104	0.0048	0.01188	0	87.6	70	130	0.01062	2.03	25	*
Benzene	0.01415	0.00060	0.01597	0	88.6	70	130	0.01428	0.899	25	
Benzyl chloride	0.03018	0.0026	0.02589	0	117	70	130	0.03065	1.53	25	
Bromodichloromethane	0.0329	0.0013	0.0335	0	98.2	70	130	0.03303	0.407	25	
Bromoform	0.06088	0.0052	0.05168	0	118	70	130	0.06119	0.508	25	
Bromomethane	0.01988	0.0019	0.01942	0.0001553	102	70	130	0.01996	0.390	25	
Carbon disulfide	0.01526	0.00062	0.01557	0	98	70	130	0.01551	1.62	25	
Carbon tetrachloride	0.02907	0.0013	0.03146	0	92.4	70	130	0.02925	0.647	25	
Chlorobenzene	0.02182	0.00090	0.02302	0	94.8	70	130	0.02191	0.421	25	
Chloroethane	0.01208	0.00050	0.01319	0	91.6	70	130	0.01214	0.436	25	
Chloroform	0.02197	0.0010	0.02441	0	90	70	130	0.02222	1.10	25	

Qualifiers:
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H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Oneida Total Integrated Enterprises (OTIE)
Work Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R96723

Sample ID: **LCSD022214-6 5.0** SampType: **LCSD** TestCode: **TO_15MG+** Units: **mg/m³** Prep Date: Run ID: **VOA-6_140222A**
Client ID: **ZZZZZ** Batch ID: **R96723** TestNo: **TO-15** Analysis Date: **2/22/2014** SeqNo: **2614123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	0.009458	0.0010	0.01033	0	91.6	70	130	0.009912	4.69	25	
cis-1,2-Dichloroethene	0.01887	0.00080	0.01982	0	95.2	70	130	0.01915	1.46	25	
cis-1,3-Dichloropropene	0.02419	0.00090	0.02269	0	107	70	130	0.0241	0.376	25	
Cyclohexane	0.01642	0.00070	0.01721	0	95.4	70	130	0.01683	2.48	25	
Dibromochloromethane	0.04515	0.0017	0.04259	0	106	70	130	0.04532	0.377	25	
Dichlorodifluoromethane	0.02052	0.0010	0.02473	0	83	70	130	0.02166	5.39	25	
Ethyl acetate	0.01607	0.00070	0.01802	0	89.2	70	130	0.01622	0.893	25	
Ethylbenzene	0.0218	0.00090	0.02171	0	100	70	130	0.02206	1.19	25	
Freon-113	0.03303	0.0015	0.03832	0	86.2	70	130	0.03479	5.20	25	
Freon-114	0.02635	0.0070	0.03495	0	75.4	70	130	0.02852	7.90	25	
Heptane	0.01988	0.00080	0.02049	0	97	70	130	0.02016	1.43	25	
Hexachlorobutadiene	0.05695	0.0021	0.05333	0	107	70	130	0.05898	3.50	25	
Hexane	0.0196	0.0018	0.01762	0	111	70	130	0.02027	3.36	25	
Isopropyl Alcohol	0.01214	0.0025	0.01229	0	98.8	70	130	0.01207	0.609	25	
m,p-Xylene	0.04403	0.0017	0.04342	0	101	70	130	0.04459	1.27	25	
Methyl tert-butyl ether	0.01745	0.00070	0.01803	0	96.8	70	130	0.0177	1.44	25	
Methylene chloride	0.0158	0.0069	0.01737	0	91	70	130	0.01591	0.657	25	
o-Xylene	0.02201	0.00090	0.02171	0	101	70	130	0.02223	0.981	25	
Propene	0.007211	0.0034	0.008605	0.0001205	82.4	70	130	0.007469	3.52	25	
Styrene	0.02424	0.00090	0.0213	0	114	70	130	0.02458	1.40	25	
Tetrachloroethene	0.03256	0.0014	0.03391	0	96	70	130	0.03283	0.830	25	
Tetrahydrofuran	0.01366	0.0015	0.01475	0	92.6	70	130	0.01374	0.646	25	
Toluene	0.01831	0.00080	0.01884	0	97.2	70	130	0.01843	0.615	25	
trans-1,2-Dichloroethene	0.01927	0.00080	0.01982	0	97.2	70	130	0.01947	1.02	25	
trans-1,3-Dichloropropene	0.02188	0.00090	0.02269	0	96.4	70	130	0.02183	0.208	25	
Trichloroethene	0.02569	0.0011	0.02687	0	95.6	70	130	0.02596	1.04	25	
Trichlorofluoromethane	0.02354	0.0011	0.02809	0	83.8	70	130	0.02416	2.59	25	
Vinyl acetate	0.01852	0.0070	0.01761	0	105	70	130	0.01877	1.32	25	
Vinyl chloride	0.01069	0.00050	0.01278	0	83.6	70	130	0.01115	4.22	25	
Xylenes, Total	0.06604	0.0026	0.06513	0	101	70	130	0.06687	1.24	25	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blank
E - Value above quantitation range

Analytical Run Summary

Run ID: *VOA-6_140224A (R96732)*

Analyst: VP

Printed: *19-Mar-14*

SeqNo	Sample ID	Type	Test Code	Batch	DF	File ID	Date/Time Analyzed
2614175	CCV022414-6 5.0	CCV	TO_15A+	R96732	1	02241401.D	02/24/2014 12:16
2614173	BFB022414-6	TUNE	BFB	R96732	1	02241401.D	02/24/2014 12:16
2614177	MB022414-6	MBLK	TO_15MG+	R96732	1	02241402.D	02/24/2014 12:53
2614844	MB022414-6	MBLK	TO_15A+	R96732	1	02241402.D	02/24/2014 12:53
2614845	LCS022414-6 5.0	LCS	TO_15A+	R96732	1	02241403.D	02/24/2014 13:29
2614178	LCS022414-6 5.0	LCS	TO_15MG+	R96732	1	02241403.D	02/24/2014 13:29
2614846	LCSD022414-6 5.0	LCSD	TO_15A+	R96732	1	02241404.D	02/24/2014 14:06
2614179	LCSD022414-6 5.0	LCSD	TO_15MG+	R96732	1	02241404.D	02/24/2014 14:06
2614779	14020436-001A	SAMP	TO_15MG	74790	1	02241405.D	02/24/2014 14:42
2614780	14020436-002A	SAMP	TO_15MG	74790	1	02241406.D	02/24/2014 15:18
2614781	14020436-003A	SAMP	TO_15MG	74790	1	02241407.D	02/24/2014 15:55
2614782	14020436-004A	SAMP	TO_15MG	74790	1	02241408.D	02/24/2014 16:31
2614786	14020436-005A	SAMP	TO_15MG	74790	1	02241409.D	02/24/2014 17:07
2614787	14020436-006A	SAMP	TO_15MG	74790	1	02241410.D	02/24/2014 17:55
2614788	14020436-007A	SAMP	TO_15MG	74790	1	02241411.D	02/24/2014 18:32
2614789	14020436-008A	SAMP	TO_15MG	74790	2	02241412.D	02/24/2014 19:08
2614790	14020436-009A	SAMP	TO_15MG	74790	1	02241413.D	02/24/2014 19:44
2614791	14020436-010A	SAMP	TO_15MG	74790	1	02241414.D	02/24/2014 20:21
2614820	14020436-011A	SAMP	TO_15MG	74790	1	02241415.D	02/24/2014 20:57
2614821	14020436-012A	SAMP	TO_15MG	74790	1	02241416.D	02/24/2014 21:33
2614822	14020436-013A	SAMP	TO_15MG	74790	1	02241417.D	02/24/2014 22:10
2614823	14020436-014A	SAMP	TO_15MG	74790	1	02241418.D	02/24/2014 22:46
2614824	14020436-015A	SAMP	TO_15MG	74790	1	02241419.D	02/24/2014 23:22
2614847	14020458-001A	SAMP	TO_15A+	74787	1	02241420.D	02/24/2014 23:59
2617223	14020458-001A	SAMP	TO_15MG+	74787	1	02241420.D	02/24/2014 23:59
2614848	14020458-002A	SAMP	TO_15A+	74787	1	02241421.D	02/25/2014 0:35
2617224	14020458-002A	SAMP	TO_15MG+	74787	1	02241421.D	02/25/2014 0:35
2614850	14020458-003A	SAMP	TO_15A+	74787	1	02241422.D	02/25/2014 1:11
2617225	14020458-003A	SAMP	TO_15MG+	74787	1	02241422.D	02/25/2014 1:11
2617226	14020458-004A	SAMP	TO_15MG+	74787	1	02241423.D	02/25/2014 1:47
2614851	14020458-004A	SAMP	TO_15A+	74787	1	02241423.D	02/25/2014 1:47
2614852	C022414	MBLK	TO_15A+	R96732	1	02241424.D	02/25/2014 10:38

CLIENT: Oneida Total Integrated Enterprises (OTIE)
Work Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R96732

Sample ID: **MB022414-6**	SampType: **MBLK**	TestCode: **TO_15MG+**	Units: **mg/m³**	Prep Date:					Run ID: **VOA-6_140224A**		
Client ID: **ZZZZZ**	Batch ID: **R96732**	TestNo: **TO-15**		Analysis Date: **2/24/2014**					SeqNo: **2614177**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.0011									
1,1,2,2-Tetrachloroethane	ND	0.00034									
1,1,2-Trichloroethane	ND	0.00027									
1,1-Dichloroethane	ND	0.00081									
1,1-Dichloroethene	ND	0.00079									
1,2,4-Trichlorobenzene	ND	0.0015									
1,2,4-Trimethylbenzene	ND	0.00098									
1,2-Dibromoethane	ND	0.00038									
1,2-Dichlorobenzene	ND	0.0012									
1,2-Dichloroethane	ND	0.00020									
1,2-Dichloropropane	ND	0.00023									
1,3,5-Trimethylbenzene	ND	0.00098									
1,3-Butadiene	ND	0.00044									
1,3-Dichlorobenzene	ND	0.0012									
1,4-Dichlorobenzene	ND	0.00030									
1,4-Dioxane	ND	0.0036									
2-Butanone	ND	0.0015									
2-Hexanone	ND	0.0041									
4-Ethyltoluene	ND	0.00098									
4-Methyl-2-pentanone	ND	0.0041									
Acetone	0.0004988	0.0048									J*
Benzene	ND	0.00064									
Benzyl chloride	ND	0.0026									
Bromodichloromethane	ND	0.00034									
Bromoform	ND	0.0052									
Bromomethane	0.0001942	0.0019									J
Carbon disulfide	ND	0.00062									
Carbon tetrachloride	ND	0.0013									
Chlorobenzene	ND	0.00092									
Chloroethane	ND	0.00053									
Chloroform	ND	0.00024									

* within limits

* not above C.RQL

Qualifiers:
ND - Not Detected at the Reporting Limit
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* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Oneida Total Integrated Enterprises (OTIE)
Work Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R96732

Sample ID: MB022414-6	SampType: MBLK	TestCode: TO_15MG+	Units: mg/m³	Prep Date:	Run ID: VOA-6_140224A
Client ID: ZZZZZ	Batch ID: R96732	TestNo: TO-15		Analysis Date: 2/24/2014	SeqNo: 2614177

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	ND	0.0010									
cis-1,2-Dichloroethene	ND	0.00079									
cis-1,3-Dichloropropene	ND	0.00091									
Cyclohexane	ND	0.00069									
Dibromochloromethane	ND	0.00043									
Dichlorodifluoromethane	ND	0.00099									
Ethyl acetate	ND	0.00072									
Ethylbenzene	ND	0.00087									
Freon-113	ND	0.0015									
Freon-114	ND	0.0070									
Heptane	ND	0.00082									
Hexachlorobutadiene	ND	0.0021									
Hexane	0.00007049	0.0018									J
Isopropyl Alcohol	ND	0.0025									
m,p-Xylene	ND	0.0017									
Methyl tert-butyl ether	ND	0.00072									
Methylene chloride	0.0007989	0.0069									J
o-Xylene	ND	0.00087									
Propene	ND	0.0034									
Styrene	ND	0.00085									
Tetrachloroethene	ND	0.0014									
Tetrahydrofuran	ND	0.0015									
Toluene	ND	0.00075									
trans-1,2-Dichloroethene	ND	0.00079									
trans-1,3-Dichloropropene	ND	0.00091									
Trichloroethene	ND	0.0011									
Trichlorofluoromethane	ND	0.0011									
Vinyl acetate	ND	0.0070									
Vinyl chloride	ND	0.00013									
Xylenes, Total	ND	0.0026									

* below the CRQL

* below the CRQL

Qualifiers:
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H/HT - Holding Time Exceeded
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E - Value above quantitation range

CLIENT: Oneida Total Integrated Enterprises (OTIE)
Work Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R96732

Sample ID: LCS022414-6 5.0	SampType: LCS	TestCode: TO_15MG+	Units: mg/m³	Prep Date:	Run ID: VOA-6_140224A
Client ID: ZZZZZ	Batch ID: R96732	TestNo: TO-15		Analysis Date: 2/24/2014	SeqNo: 2614178

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.02603	0.0011	0.02728	0	95.4	70	130	0	0		
1,1,2,2-Tetrachloroethane	0.03537	0.00034	0.03434	0	103	70	130	0	0		
1,1,2-Trichloroethane	0.02761	0.00027	0.02728	0	101	70	130	0	0		
1,1-Dichloroethane	0.01947	0.00081	0.02024	0	96.2	70	130	0	0		
1,1-Dichloroethene	0.01951	0.00079	0.01982	0	98.4	70	130	0	0		
1,2,4-Trichlorobenzene	0.04497	0.0015	0.03711	0	121	70	130	0	0		
1,2,4-Trimethylbenzene	0.02728	0.00098	0.02458	0	111	70	130	0	0		
1,2-Dibromoethane	0.03949	0.00038	0.03842	0	103	70	130	0	0		
1,2-Dichlorobenzene	0.03217	0.0012	0.03006	0	107	70	130	0	0		
1,2-Dichloroethane	0.01902	0.00020	0.02024	0	94	70	130	0	0		
1,2-Dichloropropane	0.02214	0.00023	0.02311	0	95.8	70	130	0	0		
1,3,5-Trimethylbenzene	0.02659	0.00098	0.02458	0	108	70	130	0	0		
1,3-Butadiene	0.009446	0.00044	0.01106	0	85.4	70	130	0	0		
1,3-Dichlorobenzene	0.03241	0.0012	0.03006	0	108	70	130	0	0		
1,4-Dichlorobenzene	0.03162	0.00030	0.03006	0	105	70	130	0	0		
1,4-Dioxane	0.01831	0.0036	0.01802	0	102	70	130	0	0		
2-Butanone	0.01525	0.0015	0.01475	0	103	70	130	0	0		
2-Hexanone	0.02294	0.0041	0.02048	0	112	70	130	0	0		
4-Ethyltoluene	0.02748	0.00098	0.02458	0	112	70	130	0	0		
4-Methyl-2-pentanone	0.01864	0.0041	0.02048	0	91	70	130	0	0		
Acetone	0.01114	0.0048	0.01188	0.0004988	89.6	70	130	0	0		*
Benzene	0.0139	0.00064	0.01597	0	87	70	130	0	0		
Benzyl chloride	0.03127	0.0026	0.02589	0	121	70	130	0	0		
Bromodichloromethane	0.03397	0.00034	0.0335	0	101	70	130	0	0		
Bromoform	0.0646	0.0052	0.05168	0	125	70	130	0	0		
Bromomethane	0.02136	0.0019	0.01942	0.0001942	109	70	130	0	0		
Carbon disulfide	0.01626	0.00062	0.01557	0	104	70	130	0	0		
Carbon tetrachloride	0.0307	0.0013	0.03146	0	97.6	70	130	0	0		
Chlorobenzene	0.02233	0.00092	0.02302	0	97	70	130	0	0		
Chloroethane	0.01282	0.00053	0.01319	0	97.2	70	130	0	0		
Chloroform	0.02266	0.00024	0.02441	0	92.8	70	130	0	0		

Qualifiers:
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H/HT - Holding Time Exceeded
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E - Value above quantitation range

CLIENT: Oneida Total Integrated Enterprises (OTIE)
Work Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R96732

Sample ID: **LCS022414-6 5.0** SampType: **LCS** TestCode: **TO_15MG+** Units: **mg/m³** Prep Date: Run ID: **VOA-6_140224A**
Client ID: ZZZZZ Batch ID: **R96732** TestNo: **TO-15** Analysis Date: **2/24/2014** SeqNo: **2614178**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	0.00921	0.0010	0.01033	0	89.2	70	130	0	0		
cis-1,2-Dichloroethene	0.02018	0.00079	0.01982	0	102	70	130	0	0		
cis-1,3-Dichloropropene	0.02433	0.00091	0.02269	0	107	70	130	0	0		
Cyclohexane	0.01594	0.00069	0.01721	0	92.6	70	130	0	0		
Dibromochloromethane	0.04736	0.00043	0.04259	0	111	70	130	0	0		
Dichlorodifluoromethane	0.0224	0.00099	0.02473	0	90.6	70	130	0	0		
Ethyl acetate	0.01546	0.00072	0.01802	0	85.8	70	130	0	0		
Ethylbenzene	0.02219	0.00087	0.02171	0	102	70	130	0	0		
Freon-113	0.03602	0.0015	0.03832	0	94	70	130	0	0		
Freon-114	0.02929	0.0070	0.03495	0	83.8	70	130	0	0		
Heptane	0.01902	0.00082	0.02049	0	92.8	70	130	0	0		
Hexachlorobutadiene	0.06314	0.0021	0.05333	0	118	70	130	0	0		
Hexane	0.01896	0.0018	0.01762	0.00007049	107	70	130	0	0		
Isopropyl Alcohol	0.01241	0.0025	0.01229	0	101	70	130	0	0		
m,p-Xylene	0.04481	0.0017	0.04342	0	103	70	130	0	0		
Methyl tert-butyl ether	0.01878	0.00072	0.01803	0	104	70	130	0	0		
Methylene chloride	0.01664	0.0069	0.01737	0.0007989	91.2	70	130	0	0		
o-Xylene	0.02245	0.00087	0.02171	0	103	70	130	0	0		
Propene	0.007332	0.0034	0.008605	0	85.2	70	130	0	0		
Styrene	0.02479	0.00085	0.0213	0	116	70	130	0	0		
Tetrachloroethene	0.03425	0.0014	0.03391	0	101	70	130	0	0		
Tetrahydrofuran	0.01304	0.0015	0.01475	0	88.4	70	130	0	0		
Toluene	0.01828	0.00075	0.01884	0	97	70	130	0	0		
trans-1,2-Dichloroethene	0.0203	0.00079	0.01982	0	102	70	130	0	0		
trans-1,3-Dichloropropene	0.02238	0.00091	0.02269	0	98.6	70	130	0	0		
Trichloroethene	0.02633	0.0011	0.02687	0	98	70	130	0	0		
Trichlorofluoromethane	0.0268	0.0011	0.02809	0	95.4	70	130	0	0		
Vinyl acetate	0.0194	0.0070	0.01761	0	110	70	130	0	0		
Vinyl chloride	0.01166	0.00013	0.01278	0	91.2	70	130	0	0		
Xylenes, Total	0.06726	0.0026	0.06513	0	103	70	130	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Oneida Total Integrated Enterprises (OTIE)
Work Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R96732

Sample ID: **LCSD022414-6 5.0** SampType: **LCSD** TestCode: **TO_15MG+** Units: **mg/m³** Prep Date: Run ID: **VOA-6_140224A**
Client ID: **ZZZZZ** Batch ID: **R96732** TestNo: **TO-15** Analysis Date: **2/24/2014** SeqNo: **2614179**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.02613	0.0011	0.02728	0	95.8	70	130	0.02603	0.418	25	
1,1,2,2-Tetrachloroethane	0.03571	0.00034	0.03434	0	104	70	130	0.03537	0.966	25	
1,1,2-Trichloroethane	0.0269	0.00027	0.02728	0	98.6	70	130	0.02761	2.60	25	
1,1-Dichloroethane	0.01983	0.00081	0.02024	0	98	70	130	0.01947	1.85	25	
1,1-Dichloroethene	0.01967	0.00079	0.01982	0	99.2	70	130	0.01951	0.810	25	
1,2,4-Trichlorobenzene	0.04646	0.0015	0.03711	0	125	70	130	0.04497	3.25	25	
1,2,4-Trimethylbenzene	0.02777	0.00098	0.02458	0	113	70	130	0.02728	1.79	25	
1,2-Dibromoethane	0.03934	0.00038	0.03842	0	102	70	130	0.03949	0.390	25	
1,2-Dichlorobenzene	0.03241	0.0012	0.03006	0	108	70	130	0.03217	0.745	25	
1,2-Dichloroethane	0.01894	0.00020	0.02024	0	93.6	70	130	0.01902	0.426	25	
1,2-Dichloropropane	0.02223	0.00023	0.02311	0	96.2	70	130	0.02214	0.417	25	
1,3,5-Trimethylbenzene	0.02669	0.00098	0.02458	0	109	70	130	0.02659	0.369	25	
1,3-Butadiene	0.01018	0.00044	0.01106	0	92	70	130	0.009446	7.44	25	
1,3-Dichlorobenzene	0.03259	0.0012	0.03006	0	108	70	130	0.03241	0.555	25	
1,4-Dichlorobenzene	0.03174	0.00030	0.03006	0	106	70	130	0.03162	0.380	25	
1,4-Dioxane	0.01881	0.0036	0.01802	0	104	70	130	0.01831	2.72	25	
2-Butanone	0.01534	0.0015	0.01475	0	104	70	130	0.01525	0.579	25	
2-Hexanone	0.02274	0.0041	0.02048	0	111	70	130	0.02294	0.897	25	
4-Ethyltoluene	0.02753	0.00098	0.02458	0	112	70	130	0.02748	0.179	25	
4-Methyl-2-pentanone	0.01839	0.0041	0.02048	0	89.8	70	130	0.01864	1.33	25	
Acetone	0.01128	0.0048	0.01188	0.0004988	90.8	70	130	0.01114	1.27	25	*
Benzene	0.01396	0.00064	0.01597	0	87.4	70	130	0.0139	0.459	25	
Benzyl chloride	0.03168	0.0026	0.02589	0	122	70	130	0.03127	1.32	25	
Bromodichloromethane	0.03404	0.00034	0.0335	0	102	70	130	0.03397	0.197	25	
Bromoform	0.06502	0.0052	0.05168	0	126	70	130	0.0646	0.638	25	
Bromomethane	0.02151	0.0019	0.01942	0.0001942	110	70	130	0.02136	0.725	25	
Carbon disulfide	0.01619	0.00062	0.01557	0	104	70	130	0.01626	0.384	25	
Carbon tetrachloride	0.03114	0.0013	0.03146	0	99	70	130	0.0307	1.42	25	
Chlorobenzene	0.02224	0.00092	0.02302	0	96.6	70	130	0.02233	0.413	25	
Chloroethane	0.01282	0.00053	0.01319	0	97.2	70	130	0.01282	0	25	
Chloroform	0.02266	0.00024	0.02441	0	92.8	70	130	0.02266	0	25	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blank
E - Value above quantitation range

CLIENT: Oneida Total Integrated Enterprises (OTIE)
Work Order: 14020436
Project: 2010101-1040, Dearborn Street VI Site

ANALYTICAL QC SUMMARY REPORT

BatchID: R96732

Sample ID: **LCSD022414-6 5.0** SampType: **LCSD** TestCode: **TO_15MG+** Units: **mg/m³** Prep Date: Run ID: **VOA-6_140224A**
Client ID: ZZZZZ Batch ID: **R96732** TestNo: **TO-15** Analysis Date: **2/24/2014** SeqNo: **2614179**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	0.009788	0.0010	0.01033	0	94.8	70	130	0.00921	6.09	25	
cis-1,2-Dichloroethene	0.02026	0.00079	0.01982	0	102	70	130	0.02018	0.392	25	
cis-1,3-Dichloropropene	0.0241	0.00091	0.02269	0	106	70	130	0.02433	0.937	25	
Cyclohexane	0.01621	0.00069	0.01721	0	94.2	70	130	0.01594	1.71	25	
Dibromochloromethane	0.04736	0.00043	0.04259	0	111	70	130	0.04736	0	25	
Dichlorodifluoromethane	0.02379	0.00099	0.02473	0	96.2	70	130	0.0224	6.00	25	
Ethyl acetate	0.01553	0.00072	0.01802	0	86.2	70	130	0.01546	0.465	25	
Ethylbenzene	0.02232	0.00087	0.02171	0	103	70	130	0.02219	0.585	25	
Freon-113	0.03732	0.0015	0.03832	0	97.4	70	130	0.03602	3.55	25	
Freon-114	0.03139	0.0070	0.03495	0	89.8	70	130	0.02929	6.91	25	
Heptane	0.01922	0.00082	0.02049	0	93.8	70	130	0.01902	1.07	25	
Hexachlorobutadiene	0.06463	0.0021	0.05333	0	121	70	130	0.06314	2.34	25	
Hexane	0.01953	0.0018	0.01762	0.00007049	110	70	130	0.01896	2.93	25	
Isopropyl Alcohol	0.01231	0.0025	0.01229	0	100	70	130	0.01241	0.795	25	
m,p-Xylene	0.04494	0.0017	0.04342	0	104	70	130	0.04481	0.290	25	
Methyl tert-butyl ether	0.01896	0.00072	0.01803	0	105	70	130	0.01878	0.955	25	
Methylene chloride	0.01671	0.0069	0.01737	0.0007989	91.6	70	130	0.01664	0.417	25	
o-Xylene	0.02262	0.00087	0.02171	0	104	70	130	0.02245	0.771	25	
Propene	0.007452	0.0034	0.008605	0	86.6	70	130	0.007332	1.63	25	
Styrene	0.02471	0.00085	0.0213	0	116	70	130	0.02479	0.344	25	
Tetrachloroethene	0.03418	0.0014	0.03391	0	101	70	130	0.03425	0.198	25	
Tetrahydrofuran	0.01307	0.0015	0.01475	0	88.6	70	130	0.01304	0.226	25	
Toluene	0.01831	0.00075	0.01884	0	97.2	70	130	0.01828	0.206	25	
trans-1,2-Dichloroethene	0.02062	0.00079	0.01982	0	104	70	130	0.0203	1.55	25	
trans-1,3-Dichloropropene	0.02206	0.00091	0.02269	0	97.2	70	130	0.02238	1.43	25	
Trichloroethene	0.02633	0.0011	0.02687	0	98	70	130	0.02633	0	25	
Trichlorofluoromethane	0.02747	0.0011	0.02809	0	97.8	70	130	0.0268	2.48	25	
Vinyl acetate	0.01937	0.0070	0.01761	0	110	70	130	0.0194	0.182	25	
Vinyl chloride	0.01209	0.00013	0.01278	0	94.6	70	130	0.01166	3.66	25	
Xylenes, Total	0.06756	0.0026	0.06513	0	104	70	130	0.06726	0.451	25	

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APPENDIX C

PHOTOGRAPHIC LOG

Site: Dearborn Street VI Site
Contract: EP-S5-10-10
TDD: TO-01-13-12-1033
OSC: Shelly Lam

Date: 02/17/2014
Photographer: Christopher Redfearn

Photograph No. : 1
Private utility locator marking utilities in the area.

Site: Dearborn Street VI Site
Contract: EP-S5-10-10
TDD: TO-01-13-12-1033
OSC: Shelly Lam

Date: 02/18/2014
Photographer: Christopher Redfearn

Photograph No. : 2
Work area set-up for boring installation with Geoprobe

Site: Dearborn Street VI Site
Contract: EP-S5-10-10
TDD: TO-01-13-12-1033
OSC: Shelly Lam

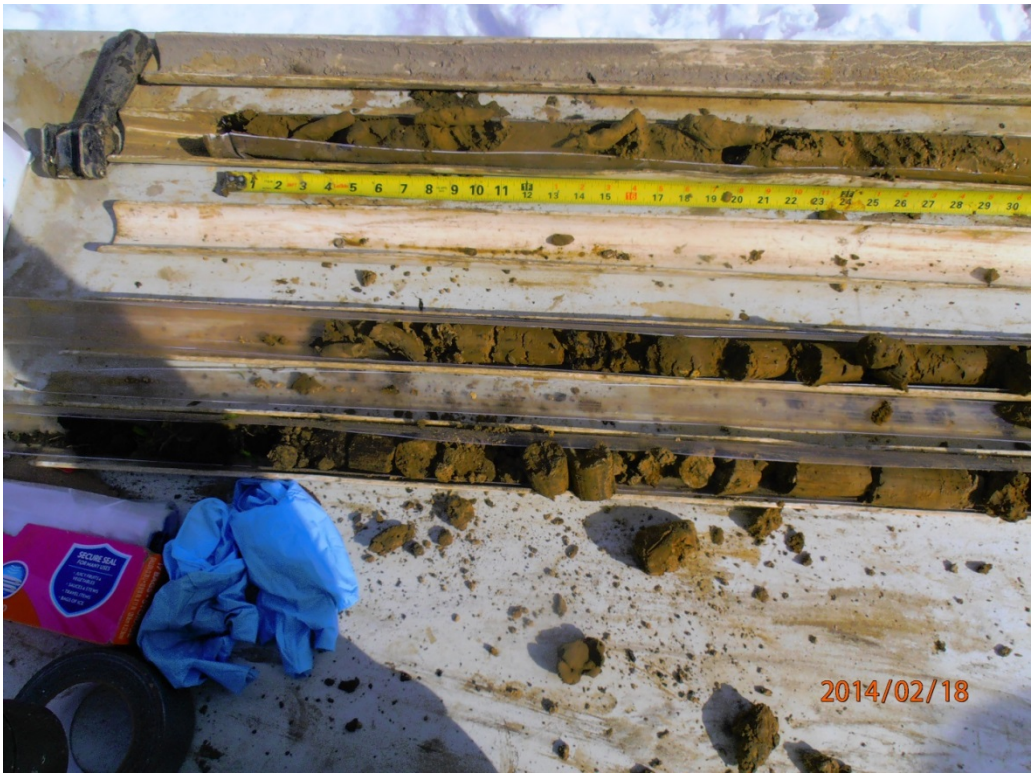
Date: 02/18/2014
Photographer: Christopher Redfearn

Photograph No. : 3
Soil gas implant attached to tubing to be inserted into the boring.

Site: Dearborn Street VI Site
Contract: EP-S5-10-10
TDD: TO-01-13-12-1033
OSC: Shelly Lam

Date: 02/18/2014
Photographer: Christopher Redfearn

Photograph No. : 4
IDEM inserting tubing into the boring.

Site: Dearborn Street VI Site Contract: EP-S5-10-10 TDD: TO-01-13-12-1033 OSC: Shelly Lam Date: 02/18/2014 Photographer: Christopher Redfearn Photograph No. : 5 Soil being classified for boring logs.	
Site: Dearborn Street VI Site Contract: EP-S5-10-10 TDD: TO-01-13-12-1033 OSC: Shelly Lam Date: 02/20/2014 Photographer: Christopher Redfearn Photograph No. : 6 Sample being collected with Summa canister.	

Site: Dearborn Street VI Site Contract: EP-S5-10-10 TDD: TO-01-13-12-1033 OSC: Shelly Lam Date: 02/20/2014 Photographer: Christopher Redfearn Photograph No. : 7 Leak test being conducted for QA/QC.	
Site: Dearborn Street VI Site Contract: EP-S5-10-10 TDD: TO-01-13-12-1033 OSC: Shelly Lam Date: 02/20/2014 Photographer: Christopher Redfearn Photograph No. : 8 Drums staged at the Crown Laundry Site.